

Configuration Part of FIORI

- Configure Trusted RFC
- Configuring SAP Gateway :(Activate SAP Gateway in FES)

Path : In the customizing (transaction SPRO), SAP Netwaiver-choose UI Technologies → SAP Fiori → Initial Setup → Connection Settings (Front-End Server to ABAP Back-End Server) → Activate SAP Gateway. or /N/IWFND/IWF_ACTIVATE

- Maintain System Alias for front end system and backend system

An SAP system alias is needed as the logical name of a system connection, that is, you specify where the SAP system alias should point to. Depending on the SAP Gateway content scenario And your system landscape you thus set up the system alias

Path:

In the customizing (transaction SPRO), choose UI Technologies → SAP Fiori → Initial Setup → Connection Settings (Front-End Server to ABAP Back-End Server) → Define SAP System Alias . OR

- ❖ Start transaction /N/UI2/GW_SYS_ALIAS.
- ❖ system aliases are stored in view /IWFND/V_DFSYAL

SAP Gateway Alias:

A SAP Gateway alias is needed to have at least one entry for the SAP Gateway hub (here: the FES system) in the Service Builder (transaction SEGW) to register OData services that you are going to develop

Note:

FES(Front end server),BES(Backend server)

/N/UI2/FLPD_CUST
/N/UI2/FLPD_CONF

Changes for one particular client

Client dependent changes

Changes across all clients of one system

Client Independent Changes

/N/UI2/FLPD_CONF: For all client

/N/UI2/FLPD_CUST: Particular client

SPRO

FES

Change View "SAP Gateway settings": Overview

SAP Gateway settings

Destination system	Client	System Alias	RFC Destination
FES	100		NONE

SPRO

BES

Change View "SAP Gateway settings": Overview

SAP Gateway settings

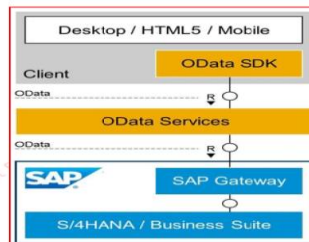
Destination system	Client	System Alias	RFC Destination
FES	100		FES_RFC

In transaction SPRO, open the SAP Reference IMG and navigate to SAP NetWeaver → SAP Gateway Service Enablement → Backend Odata Channel → Connection Settings to SAP Gateway → SAP Gateway Settings

What is OData Service

The Open Data Protocol (OData):

- As a Technical Architect you are requested to allow the use of SAP Fiori Apps in your landscape. One of the essential components is the SAP Gateway to provide OData services.
- Exchanging data between multiple, different server systems and end-user items, needs a standardised exchange infrastructure. One of the possible solutions is the Open Data protocol (OData)



Register OData Service in Back-end:

SAP Gateway Service Builder (transaction SEGW) is a design-time environment, which provides you with an easy-to-use set of tools for creating services. It supports you throughout the development life cycle of a service.

Activate OData Service in Front-end: /N/IWFND/MAINT_SERVICE

The screenshot displays the SAP Gateway Service Builder (SEGW) interface. The top section shows the 'Service Registration in SAP Gateway Hub System(s)' table with columns for System, Client, RFC Destination, and Registration Status. The bottom section shows the 'ICF Nodes' table with columns for Status, ICF Node, Session Time-out, Soft State, and Description. The 'ICF Nodes' table shows the 'ODATA' node with a status of 'Green' and a session time-out of '00:00:00'. The 'System Aliases' table shows the 'S4HANA' alias with a description of 'S4HANA Backend System' and a default system of 'S4HANA'.

System	Client	RFC Destination	Registration Status
FES500	100	FES00_RFC	○○○

Status	ICF Node	Session Time-out	Soft State	Description
Green	ODATA	00:00:00		Standard Mode

SAP System Alias	Description	Default System	Metadata	Use
S4HANA	S4HANA Backend System	✓		

After activating Odata Service in Front-end system, the status of the Odata Service in backend will be in green as following:
SEGW:

Note:
In case of an error, activate the ICF service /sap/opu/odata/IWBEP/GWSAMPLE_BASIC in your FES system (using transactionSICF).

Note:
In case of an error, activate the ICF service /sap/opu/odata/IWBEP/GWSAMPLE_BASIC in your FES system (using transactionSICF).

Configuring the SAP Fiori Launchpad:

The Launchpad and Launchpad designer need a reverse proxy to direct the browser requests to either the front-end system in which the JavaScript sources are stored, or to the SAP Gateway system in which the OData services are located.

These are the relevant OData services for the SAP Fiori Launchpad resp. the SAP Fiori Launchpad designer:(5 ODATA Service is required for Fiori lunch pad & fiori lunch pad desiner)

1. /UI2/PAGE_BUILDER_CONF
2. /UI2/PAGE_BUILDER_CUST
3. /UI2/PAGE_BUILDER_PERS
4. /UI2/TRANSPORT
5. /UI2/INTEROP

To activate them, you can use:
the transaction /N/IWFND/MAINT_SERVICE

In addition to the OData services mentioned above, the launchpad and launchpad designer also need ICF services for the application resources from the FES system.

To activate them, you can use the transaction SICF

```
/sap/bc/ui2/smi/rest_tunnel
/sap/bc/ui2/nwbc
/sap/bc/ui2/start_up
/sap/bc/ui5_ui5/sap/ar_srvc_launch
/sap/bc/ui5_ui5/sap/ar_srvc_news
/sap/bc/ui5_ui5/sap/arsrv_upb_admn
/sap/bc/ui5_ui5/ui2/ushell
/sap/public/bc/ui2
/sap/public/bc/ui5_ui5
/sap/bc/ui2/flp
/sap/bc/ui2/app_index
/sap/bc/lrep
```

After activating the SICF service, the launchpad can be accessed under any of the following ICF services:

```
/sap/bc/ui2/flp/
/sap/bc/ui2/flp/index.html
/sap/bc/ui2/flp/FioriLaunchpad.html
```

SAPUI5 needs these ICF services for the application resources from the FES system:

```
/sap/public/bc/ui5_ui5
/sap/bc/ui5_ui5/ui2
```

Check the Hash Key :

Run Transaction SE16 to view the table contents.

Enter "USOBHASH" in the **Table Name** field, and click on the **Table Content** button.

In the next screen, enter the following details, and click **Execute**:

- **PGMID**: "R3TR" (program ID)
- **OBJECT**: "IWSG" (object type)
- **OBJ_NAME**: "ZINTEROP*"

Configure Authorization Roles:

Role for SAP Fiori launchpad administrators : SAP_UI2_ADMIN_750

Odata Authorizations to be added for Fiori Admin Role:

- **ZINTEROP_0001**
- **ZPAGE_BUILDER_CONF_0001**
- **ZPAGE_BUILDER_CUST_0001**
- **ZPAGE_BUILDER_PERS_0001**
- **ZTRANSPORT_0001**

Service	
Authorization Default	TADIR Service
Program ID	R3TR
Obj. Type	IWSG SAP Gateway: Service Groups Metadata
TADIR Service	Text
ZINTEROP_0001	
ZPAGE_BUILDER_CONF_0001	
ZPAGE_BUILDER_CUST_0001	
ZPAGE_BUILDER_PERS_0001	
ZTRANSPORT_0001	

Role for SAP Fiori launchpad end users: SAP_UI2_USER_750:

- **ZINTEROP_0001**
- **ZPAGE_BUILDER_PERS_0001**

Service	
Authorization Default	TADIR Service
Program ID	R3TR
Obj. Type	IWSG SAP Gateway: Service Groups Metadata
TADIR Service	Text
ZINTEROP_0001	
ZPAGE_BUILDER_PERS_0001	

Activate Cache Buster

Browsers store resources like JavaScript files, stylesheets, and images in the browser cache; when there's a software upgrade and these resources are changed on the server, you want the browser to load these new resources from the server rather than from the browser cache. With Cache Buster, the resources in the cache are reloaded automatically only when there's a new version available, so the system invalidates the cache only when resources are updated on the server.

Follow these steps to activate Cache Buster:

1. In the ABAP front-end server, run Transaction SICF.
2. Enter `"/sap/bc/ui2/flp"` in the **Service Path** field.
3. Click **Execute**, or press (F8).
4. Choose **Activate Service** in the context menu.

After activating Cache Buster, SAP Fiori launchpad with Cache Buster can be accessed via any of the following URLs:

`https://<server>:<port>/sap/bc/ui2/flp/`
`https://<server>:<port>/sap/bc/ui2/flp/index.html`
`https://<server>:<port>/sap/bc/ui2/flp/FioriLaunchpad.html`

Activate the ICF Services for KPI Design

1. In your FES, activate the following ICF services using task list

SAP_BASIS_ACTIVATE_ICF_NODES :

- `/sap/bc/ui5_ui5/sap/sb_apps_wss1`
- `/sap/bc/ui5_ui5/sap/sb_apps_kpis1`
- `/sap/bc/ui5_ui5/sap/sb_apps_evals1`
- `/sap/bc/ui5_ui5/sap/sb_apps_tiles1`
- `/sap/bc/ui5_ui5/sap/sb_apps_dds1`
- `/sap/bc/ui5_ui5/sap/sb_apps_assoc1`
- `/sap/bc/ui5_ui5/sap/sb_apps_libs1`
- `/sap/bc/ui5_ui5/sap/sb_apps1`

Register the SAP Gateway Services for KPI Design

1. In your FES, register the following SAP Gateway service relevant for KPI Design using task list SAP_GATEWAY_ACTIVATE_ODATA_SERV :

- `/SSB/SMART_BUSINESS_DESIGNTIME_SRV`
- `/SSB/SMART_BUSINESS_RUNTIME_SRV`

Search Connectors:

SAP Fiori fact sheet apps are based on search models. To enable the use of fact sheet apps, search connectors must be created for the underlying search models. A *connector* is a runtime object corresponding to a search model. It's a system-specific and client-specific object that's created in Transaction ESH_COCKPIT. Most of the data displayed in fact sheet apps comes from *search models*, which are transferred to the front-end server using OData services. To enable the use of a specific fact sheet app, the underlying search models must be activated. When activating a search model, a search connector is created. The search models that need to be activated for your app are listed in the app-specific implementation information in SAP Help at <http://help.sap.com/fiori>.

Fact sheet apps read business data via search connectors from the database. The creation of search connectors is therefore a prerequisite to using fact sheet apps.

To create search connectors, you need the following authorizations:

SAP_ESH_BOS_ADMIN
SAP_ESH_CR_ADMIN

1. Create Connectors Manually:

Launch the Embedded Search Administration cockpit in the browser via `http://<host_name>:<port_number>/sap/es/cockpit`.

Or

Transaction Code: ESH_COCKPIT

2. Create Connectors Automatically

Transaction STC01 (ABAP Task Manager)

The SAP_ESH_CREATE_INDEX_SC task list is available for this.

Trainer: Shahid

Contact Details: service.sap.grc10@gmail.com

Transactions as sap fiori apps:

1. Make sure the transaction you wish to use is available as SAP GUI for HTML, you can verify this in transaction SE93 Create new entries as displayed in the image using transaction /UI2/SEMOBJ_SAP.
2. Create new entries using transaction /UI2/SEMOBJ_SAP.
3. You can open Mass Maintenance Tool using Customizing (transaction SPRO), choose SAP NetWeaver - UI Technologies- SAP Fiori - Configuring Launchpad Content - Adding Apps to SAP Fiori Launchpad - Prepare Backend Catalogs for Reuse and launch the IMG activity Mass Maintenance Tool for App Descriptors.

Alternatively, you can start FPM application SUI_TM_MM_APP from the ABAP Workbench (transaction SE80, package SUI_TM_MM).

The catalog ID must not have more than 20 characters.

4. Map custom backend catalog to frontend system alias modifying the entries in table

SM30 with view /UI2/VC_ALIASCAT for customer catalogs or view /UI2/V_ALIASCAT for SAP catalogs

No System Alias found for Service " and user "

Message no. /IWFND/CM_COS064

Diagnosis

No system alias has been configured for Service " and the role's the user " is assigned to.

System Response

The system cannot process the request. This error message is triggered instead.

Procedure

There are two options. Assign

a system to this service either for a specific role or role independently

or assign a role to the user for which a system alias has already been assigned to this service

Procedure for System Administration

The assignment is done in IMG activity ' [Assign SAP System Aliases to OData Service](#)'

1. In your BES, activate the ICF node /sap/public with all subservices.
2. In your BES, activate the ICF node /sap/bc/webdynpro/sap/ESH_ADMIN_UI_COMPONENT.

3. To create search connectors, you need the following authorizations :

SAP_ESH_BOS_SEARCH SAP_ESH_CR_ADMIN

- 4 . In your BES, launch the Connector Administration Cockpit , using the transaction ESH_COCKPIT.

Report to activate search connectors:

ESH_TSK_CREATE_INDEX_SC_UI

1861013

The overall list of the HANA-enabled search models available in the SAP Business Suite can be found in the attached Excel AvailableModels.xls .

For information about how to create the search connectors, see [Creating Connectors](#) on <http://help.sap.com>.

How to find the search models in the system:

At the moment of the initial system setup, you find the search models in transaction ESH_COCKPIT under the search software components given in the row *Software Component of Model* of the attached Excel sheet.

For ERP, use the search connectors in search software component SAPAPPLH.

For GRC, use the search connectors in search software component GRCFNDAAH.

For SRM, use the search connectors in search software component SRMSERVERH.

Fiori Security

Fiori

SAP Fiori is a design language and user experience approach developed by SAP for use by SAP, its customers and its partners in business applications.

UI5 fiori

- Is a set of design principles (or design language) from SAP that is there to help developers plan and build UI5 applications in line with SAP's UX strategy
- SAP UI5 is a Java script based framework that is used to design multi-platform business applications. It supports various data

Deployment option for fiori

- Hub Deployment
It's a Central HUB, centralized in one system, Front end system (Fiori) & Backend system is there (S4 HANA)
- On-Premise Deployment (Embedded)
Its mostly hybrid(Both S4 HANA & Fiori),It is one unified system

Architecture and Integration

SAP Fiori possesses a high level architecture. It is built for web applications and iOS which can be used in smartphones, tablets and desktops

- ❖ SAP Fiori Launchpad
- ❖ SAP Web Dispatcher
- ❖ Communication Channels
- ❖ SAP Fiori App-Supported Browsers and OS
- ❖ SAP Fiori, Cloud Edition

SAP fiori Lunchpad

SAP Fiori Launchpad is the central point to access SAP Fiori applications. It shows how FLP holds the transactional and legacy apps. For Legacy apps, the communication happens directly.

SAP Web Dispatcher

This is very important for communication with multiple systems, which is in normal web applications.

Communication channel

To transfer application data and security credentials within your SAP Fiori system landscape, communication between the client, the front end, and the back end is established by using different communication channels and protocols.

- HTML request
- OData service
- In a search request

SAP Fiori App-Supported Browsers and OS

- Chrome.
- Firefox.
- Internet Explorer 11 (known issues with IE 9)
- Microsoft Edge.
- Mozilla Firefox.
- Apple Safari.

SAP Fiori, Cloud Edition

SAP Fiori Cloud for SAP Business Suite enables you to experience, customize, and run SAP Fiori apps in the cloud, connected to your on-premise landscape for productive usage.

Types of fiori app

- ❖ Transactional apps(It can run in any data base)
- ❖ Analytical Apps(It can run in HANA data base only)
- ❖ Fact sheet Apps(It can run in HANA data base only)

Transactional Apps:

- ❖ Transactional apps in SAP Fiori are mainly used to perform manager employee transaction such leave request, travel request purchase order ,material management
- ❖ This Application run based on HANA data base but can be deploy any database with acceptable performance
- ❖ Transaction app allows user to simple SAP transaction on Mobile device as well as desktop or laptop

Analytical app

- ❖ Analytical Apps are used to provide feature based absolutely real time information approximately the organization operations, Ex Over view inventory Management
- ❖ It also helps to give real time data from a big quantity of statistics in the front end internet browser
- ❖ SAP Fiori Analytical Apps use Virtual Information models

Fact sheet Apps

- ❖ Fact sheets are used to get the important data and some contextual records in some operations
- ❖ This fact sheet run only HANA data base
- ❖ It is a search mechanism

Difference between Fact sheet & transactional app

- ❖ Transactional app can run in any data base ,whereas Factsheet app & analytical app can run only in HANA DB
- ❖ Fact sheet is a search mechanism

3 things need to be activated for Fiori launchpad

- ❖ ZESH_SEARCH_SRV_0001
- ❖ ZINTEROP_0001
- ❖ ZPAGE_BUILDER_PERS_001

Pre-requisite for deploying app, which is OData service and ICF Node

Where to get OData service

To know OData service-Go to Fiori APP library-Check version-Configuration-See ODATA service

How to check OData service

T code (/N/IWFND/MAINT_SERV)-Copy that OData service from Fiori library _click on filter – paste in external service name

ICF node & system alias should be active in order to check OData service

To Check ICF Node :Transaction code SICF-Execute-Default host-SAP-BC-SAP-UI5-Get CIF NODE or we can check directly ICF Node in service path

App is ready (It is always role based access control ,you add transaction to role & role to the user, But in Fiori ,add catalog to role, assign role to the user)

Assigning to user by Fiori

Assign App like UI5 or SAP GUI-Assign to Catalog-Assign to Role-Assign to User

Overview of Access provisioning happens

3 different terminology

App

- It is actual application which end-user should run, It can be visible for end-user by putting in square box called as tiles
- It is an application it is represented by tiles
- It is logical entity cannot see the app, In order to see the app ,u need to put logical entity into tiles of square box)
- All App Have the tiles

Tile

- It is nothing but square box,
- which holds app inside it, It contains the app
- All the tiles have not app ,you can have blank tiles also, which do not contains anything inside of it
- Tiles is visualization of App

Launcher

- when u click on tile, if u make tile as clickable entity , entire thing will become launcher as app launcher)

Note: Sometime all the 3 can be used as interchangeable

Class-5

Catalog

- **It is a bundle ,which will contain multiple apps within it**
- **It is the main engine of access provisioning/or responsible for provisioning access**
- App always reside in catalog, no apps without catalog

3 type of Catalog

- **Technical Catalog**
- **Business Catalog**
- **Custom Catalog**

Technical & Business catalog are one, which is standard, provided by SAP

Custom catalog, which we built as security consultant, we can built **Custom Technical Catalog** and **Custom business catalog**

Note: Group catalog is one who does not provide access

Technical Catalog:

- **It is actual resting place or home for fiori apps, where they reside**
- **Every apps should have technical catalog ,like custom ,standard, SAP provided or ABAP developer and CDS views, analytical apps**
- **SAP bundle based on their technicality**

Business Catalog

- **It is bundled based on business process**

- Taking reference from Technical catalog & put into business catalog as per business process needs
- It is not permanent resting place ,it's a borrowed or reference resting place

Custom Catalogs:

- **Custom Technical Catalog** (it is the one which are built to hold custom apps)
- **Custom business catalog**(It is the one which we create referencing from all 3 other catalog ,like Technical catalog, business catalog and custom technical catalog)

Reference Catalog

App resides only in technical catalog ,apart from Technical, other is called as reference catalog

T code mentioned below screenshot

For Fiori launchpad : `/n/ui2/flp`

SAP Fiori Tutorials / By Amarnn	
Here is the list of most useful SAP Fiori Tcodes useful to SAP Fiori administrator role.	
Tcode	Description
<code>/UI2/FLP</code>	Launch SAP FIORI Launchpad
<code>/UI2/FLPD_CUST</code>	Launch SAP FIORI Launchpad designer for customization (client- specific)
<code>/UI2/FLPD_CONF</code>	Launch SAP FIORI Launchpad designer for configuration (cross-client)
<code>/UI2/CUST</code>	SAP FIORI Implementation Guide
<code>/UI2/FLC</code>	Fiori Launchpad checks
<code>/UI2/FLIA</code>	Fiori Launchpad Intent analysis
<code>/UI2/FLT</code>	Fiori Launchpad Texts
<code>/UI2/FLPCM_CUST</code>	SAP Fiori Launchpad Content Manager for customization
<code>/UI2/FLPCM_CONF</code>	SAP Fiori Launchpad Content Manager for configuration
<code>/UI2/SEM_OBJ_SAP</code>	Gives list of all Semantic objects delivered by SAP
<code>/UI2/SEM_OBJ</code>	To define custom Semantic objects
Frequently used SAP Fiori related TCodes	
<code>/n/IWFND/MAINT_SERVICE</code>	Activate and maintain Odata services
<code>/n/IWFND/ERROR_LOG</code>	SAP Gateway error log
<code>/n/UI2/GW_SYS_ALIAS</code>	SAP Gateway: Manage SAP system alias
SAP NetWeaver Gateway Tcodes useful in SAP Fiori	

Two way of creating catalog

- Fiori Launchpad designer which is Web based portal
- Fiori Content Managing ,which can create from backend

For creating catalog & group(T code is given below)

- `/UI2/FLPD_CUST` : Launch SAP FIORI Launchpad designer for customization
- `/UI2/FLPD_CONF`: Launch SAP FIORI Launchpad designer for configuration
- `UI2/FLPD_CUST` :Change for one particular client
- `UI2/FLPD_CONF` :Changes across all clients fo one system

Pre requisite of catalog/Group

- Transport request (SE09)
- Before developing catalog or group ,one setting to be done for transport request-Go to setting (above)-select transport
- Gather information before catalog contains 5 thing
 - ❖ APP ID
 - ❖ ODATA SERVICE
 - ❖ Reference catalog, it can be technical catalog, business catalogs or custom technical catalog
 - ❖ Semantic object
 - ❖ Semantic Action

Semantic object & semantic Action is called Intent

Knowledge about catalog

- When click particular APP ,system should redirect you to the appropriate service or program or T code
- Service in the case of UI5 APP ,T code in case of SAP GUI APP
- From HTTP page ,ur click will take you service/t code
- App is source & service /t code is Target
- To establish link between source & target ,u need something called as Target Mapping
- Target map contains 3 different things
 - ❖ Semantic object
 - ❖ Semantic action
 - ❖ Parametre

Semantic object:

- ✚ Semantic object & Semantic go hand in hand ,both combination called Intent, Intent should be unique
- ✚ Semantic object: Represents a business entity such as a customer, a sales order, or a product. Using semantic objects, you can bundle applications that reflect a specific scenario.

Semantic action: It's like activity like display ,modify ,Create

There is no ODATA service for SAP GUI (T code)

Catalog will be created in 2 ways ,which is Fiori Launchpad and other is content manager

System Alias

- SAP system alias points to the SAP Business Suite system from the central hub system.
- In embedded deployment, the system alias should represent the SAP Gateway system itself. So, system alias points to LOCAL

Checking the Hash Key Semantic

- Every time you call an OData service, a hash key is generated in the background. These hash keys are required for the generation of authorizations to assign administrative roles for SAP Fiori launchpad.
- These hash keys can be checked from the table "USOBHASH".
- Hash key generation can be viewed in table "USOBHASH" in transaction Data Browser (SE16). In the selection screen, specify the following:
 - ✓ R3TR in the PGMID field
 - ✓ IWSG in the Object field
 - ✓ The technical service name in the "OBJ_NAME" field

S_PB_CHIP and /UI2/CHIP/

- ❖ While using the default roles, the tiles do not show up in the SAP FLP due to missing authorizations.
- ❖ Ensure that the following additional authorization objects are added to the SAP Fiori generic end-user role: S_PB_CHIP and /UI2/CHIP.
- ❖ S_PB_CHIP is used for building iFRAMEs and CHIP.
- ❖ /UI2/CHIP is used for accessing Page Builder

Cache Management in Tiles and Chips

There are several cache clearing programs available for tiles and chips. Try running any/all of these in the system to fix the issue:

- /UI2/CHIP_SYNCHRONIZE_CACHE
- CHIP_RESET_CATALOG_CACHE

Misc. Reports Useful for Cache Management

- /UI2/DELETE_CACHE - Delete UI Cache
- /UI2/DELETE_CACHE_AFTER_IMP - UI cache after importing of a support Pack.

Reports to be Executed for Invalidating Cache

- UI2/INVALIDATE_GLOBAL_CACHES
- UI2/INVALIDATE_CLIENT_CACHES

Deleting Different Caches in FIORI System

- **Front End Server: ICM Cache**

UI2 Cache

Metadata Cache

- **Backend Server: Metadata Cache.**
- **Client: Clearing Cache in browser.**

Enter T Code: SMICM

Go to → HTTP Plug-in → Server Cache → Invalidate Locally & Invalidate Globally.

Frontend Metadata Cache: /IWFND/CACHE_CLEANUP

Backend Metadata Cache: /IWBEP/CACHE_CLEANUP

Pre-requisites of Fiori

The following services should be added and activated.

- **/UI2/PAGE_BUILDER_CONF (used by FLP Designer)**
- **/UI2/PAGE_BUILDER_CUST (used by FLP Designer)**
- **/UI2/PAGE_BUILDER_PERS (used by FLP)**
- **/UI2/INTEROP (used by both FLP and FLP Designer)**
- **/UI2/TRANSPORT (used by FLP Designer)**

Note: OData services activation is a one-time activity. BASIS team will activate these services

Common Issues in Fiori

1. Updating Authorization Defaults:

- When applications are added to or removed from a catalog in the launchpad designer, the set of authorizations required for launchpad users to run the application might change. The system can automatically retrieve the delta between applications in a launchpad catalog and applications in the PFCG role menu.

○ You use the program “**PRGN_COMPARE_ROLE_MENU**” for a mass comparison of roles. To check and, if necessary, update the status of a single catalog, you directly open the details dialogue box for a catalog in the PFCG role menu.

2. Standard SAP Catalogs and Groups are Missing in FLPD:

- ✚ Ensure that the relevant UI components are installed on the front-end server.
- ✚ Ensure the relevant OData services and ICF nodes are activated.
- ✚ Ensure that the following OData services are assigned to the right system alias.
 - ✓ /UI2/PAGE_BUILDER_CUST
 - ✓ /UI2/PAGE_BUILDER_CONF
 - ✓ /UI2/TRANSPORT
 - ✓ /UI2/INTEROP

3. Log to Capture Changes in the FLPD:

- The only changes captured would be those assigned to a transport request. There is no additional log which captures these changes outside of the transport.

4. Is it Possible to Use Custom Icons for Tiles in the FLPD?

- There is currently no officially supported method for adding custom Icons to the launchpad for use with tile creation. This may be possible using customization but would need to be provided through SAP consulting services.

Troubleshooting Tools in Fiori

After clicking on a tile in FLP getting the following errors:

- ✓ Error “initial loading of metadata failed”.
- ✓ Error “Failed to land resource: the server responded with status of 403”.

Solution:

- 1. The ICF nodes are not activated in the front end server.**
- 2. Execute – SICF transaction on your front end server.**
- 3. Enter the service name and select “Activate Service”.**

When adding a new Fiori App, the tile is missing from the group and app finder in FLP, despite the catalog and group being assigned to end-user.

- ✓ The intent (Semantic Object – action) is case sensitive any capitalization difference will cause the tile not to show in the group or app finder.
- ✓ Correct either the Target mapping or tile configuration in the original catalog to match exactly, including capitalization.

FLP Error – Failure: Unable to load groups with 500 internal server error.

- ✓ The issue is due to an improper configuration of the front end server.
- ✓ Check if the system alias is missing from T-code
“/N/IWFND/MAINT_SERVICES” (or)
- ✓ Check if any OData services are inactive.

No system alias found for service <SERVICE NAME> and user <Current User>.

- ✓ System alias was not defined for the OData service, so no backend is available to service the request.
- ✓ Open the transaction “/IWFND/MAINT_SERVICE” in the NetWeaver gateway.
- ✓ Find the service reference by the error message.
- ✓ Assign the appropriate backend for the OData service by clicking Add system alias in the bottom right hand.
- ✓ Even if the backend is local, the local system alias must be specified.

Newly created Fiori groups to catalogs are not visible in T Code PFCG.

- ✓ After creating new groups or catalogs in FLP and trying to assign, these newly created groups in transaction PFCG, they are not visible.
- ✓ The new entries were not properly cached, run the following reports in your frontend system.
 - ❖ /UI2/PAGE_CACHE_RESET
 - ❖ /UI2/PAGE_CACHE_CREATE

When trying to copy a catalog, a system generates the following Errors:

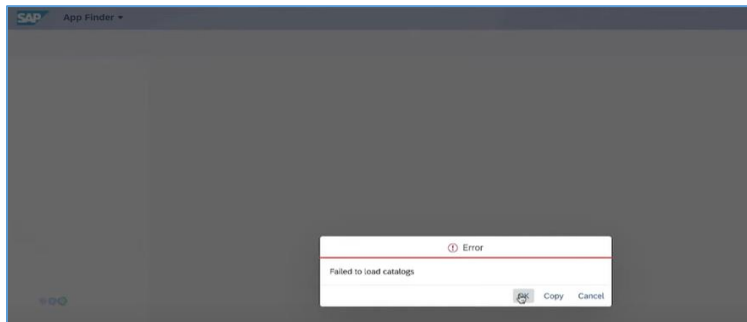
“Error while creating catalog; contact your system administrator if problem persists”.

- ❖ The catalog is missing target mapping or has not been replicated from the backend.
- ❖ For the missing target mappings, replicate the catalog by executing the following reports.
 - “/UI2/GET_APP_DESCR_REMOTE” – with the specific catalog (or)

➤ **“/UI2/GET_APP_DESCR_REMOTE_ALL” – to replicate all the catalog for all system aliases.**

Another trouble sheeting ways

❖ While opening the Fiori Launch pad, below error occurs



Ans :

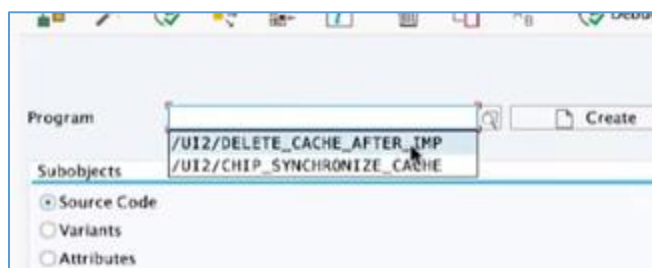
Execute below Programs

/UI5/APP_INDEX_CALCULATE

/UI2/INVALIDATE_GLOBAL_CACHES

/UI2/INVALIDATE_CLIENT_CACHES

- ❖ SU53
- ❖ Iwfnnd/error_log : it shows where error might be
- ❖ Developer tool(go to 3 dot-mote tool-develop tool)-clear console ,it shows intorope if any no aliases maintain,click on add system allias ,tere is 2 method,one is co-deployed method(Embded) and other is routing method(Central hub),routing method like Inbox app and pfcg app click processing mode changed to routing based
- ❖ To refresh SAP Fiori CACH memory: Execute T code SE38
- ❖ Two program to execute, which is below :
 - **/UI2/DELETE_CACHE_AFTER_IMP**
 - **/UI2/CHIP_SYNCHRONIZE_CACHE**



Select first one ,result is coming ,then program is working

```
Number of entries deleted:
Number of users selected: 1
Number of clients selected: 1
```

❖ When newly assigned access (TILES) is not reflecting in FLP:

SE38 -----> **ESH_REFRESH_RUNTIME_BUFFER** and **PRGN_COMPARE_ROLE_MENU**

General Note:

General Tips

Make sure the following is done:

- Components, Support Packages, and SAP Notes are installed.
- Communication channels are configured.
- All relevant OData services and ICF nodes are active.
- Roles and authorizations are assigned.

Launchpad and Launchpad Designer

Symptom: Launchpad or launchpad designer does not display catalogs.

Symptom: Launchpad or launchpad designer does not start.

If the launchpad does not start or display catalogs, there can also be other causes, such as with SAP Gateway, back ends, or authorizations

Fact sheet

Fact sheets

Are used to drill the key information and contextual information in business operations. In SAP Fiori tiles, you can drill down to further details. It also allows you to navigate one-fact sheet to all its related fact sheets. www.thundershare.net

Factsheet:

- It is a search mechanism
- Only catalog will be available for Factsheet. No group concept.
- Related **SEARCH Connector** must be activated by BASIS Team. You can check this in **Prog ESH_TEST_SEARCH**
- For Factsheet related stuff, just check the **Target Mappings** only. No tiles.
- Imp Auth Objects: **S_ESH_CONN, S_ESH_CAT** should be assigned in **ECC (S_RFC, S_RFCACL ---> HUB Model)**
- **HANA DB** is mandatory

Sales Order (S/4HANA)

Required Back-End Product

SAP S/4HANA

Line of Business

Finance, Marketing, Sales, Service, Sourcing and Procurement

Application Type

Fact sheet (SAP Fiori elements)

Database

HANA DB exclusive

Form Factor

Desktop, Phone, Tablet

App ID

F1814

www.thundershare.net

Note :Catalog related to fact sheet will not contain tiles but target mapping ,whereas in transitional app ,you get Tiles and target mapping

Catalog Collection

Drag to add

ID : X-SAP-UI2-CATALOGPAGE:SAP_SD_BC_SO_DISPL

Search

Tiles Tiles Target Mappi...

Configure Col

Semantic Object	Action	Navigation Type	Information	Desktop	Tablet	Phone	Outdated	Refere
VariantConfiguration	configureLegacy	SAPUI5 Fiori App		✓	✓	✓		✓
SalesOrder	display	Transaction		✓	X	X		✓
SalesOrder	displayFactSheet	SAPUI5 Fiori App	F1814 - Sales Order Object Page	✓	✓	✓		✓

www.thundershare.net

Add catalog into role & will log in test id,VA03 (Display is automatically added as default) & other OData relevant is added ,see below

sapquickaccess.in:9999 - Remote Desktop Connection

Role Edit Goto Utilities System Help

Change Roles

Other role Inheritance

Role

Role Z: WAREHOUSE_MGMT:TILES_ACCESS

Description Warehouse Management Tiles Access

Target System No destination

Description Menu Workflow Authorizations User MiniApps Personalization

SAP Fiori Tile Catalog

From Menus Additional Activities Other Node Details Menu Options

Hierarchy

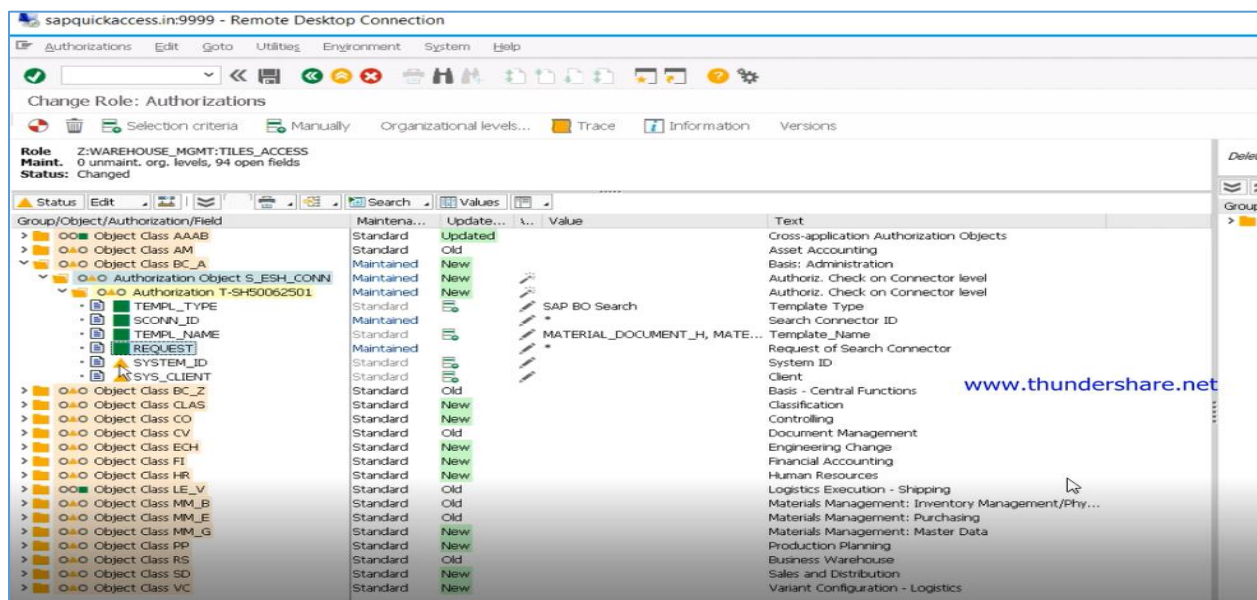
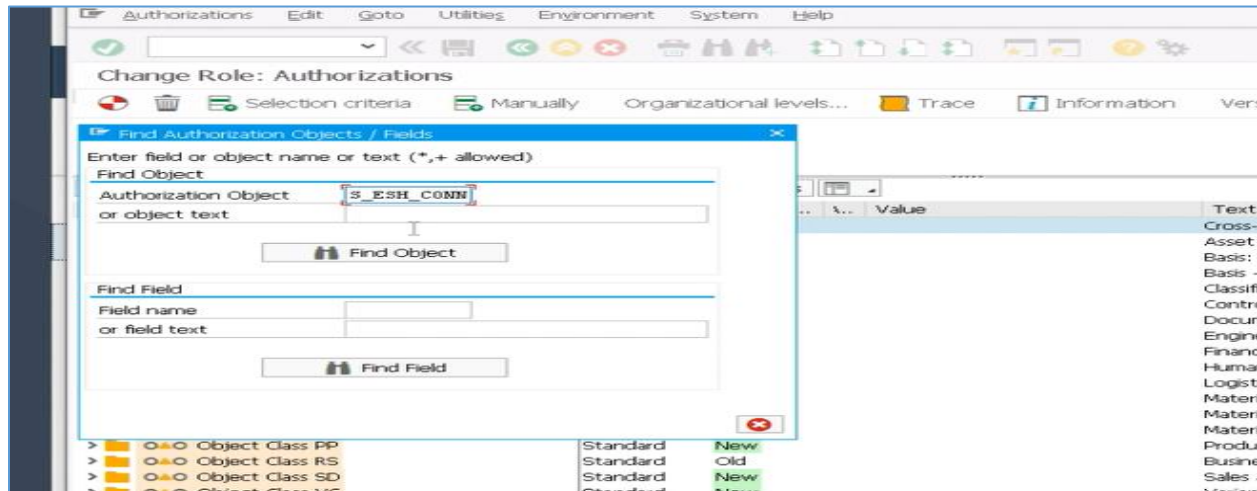
- Role Menu
 - SAP_SD_BC_SO_DISPL - Sales - Sales Order Display
 - R3TR IW5G ZLO_VCHCLF_0001 - R3TR IW5G ZLO_VCHCLF_0001
 - R3TR IW5G ZLO_VCHCLF_INTEGRATION_LEGACY_SRV_0001 - R3TR IW5G ZLO_VCHCLF_INTEGRATION_LEGACY_SRV_0001
 - R3TR IW5G ZSD_F1814_SO_FS_SRV_0001 - R3TR IW5G ZSD_F1814_SO_FS_SRV_0001
 - R3TR IW5V LO_VCHCLF_0001 - R3TR IW5V LO_VCHCLF_0001
 - R3TR IW5V LO_VCHCLF_INTEGRATION_LEGACY_SRV_0001 - R3TR IW5V LO_VCHCLF_INTEGRATION_LEGACY_SRV_0001
 - R3TR IW5V SD_F1814_SO_FS_SRV_0001 - R3TR IW5V SD_F1814_SO_FS_SRV_0001
 - VAD3 - Display Sales Orders
 - ZMM_WM - ZMM_WM
 - DISPLAY_WAREHOUSE - DISPLAY WAREHOUSE
 - SAP_MM_BCG_IM_MANAGE - Warehouse Management
 - SAP_MM_BC_IM_MANAGE - Materials Management - Warehouse Management

Node Details

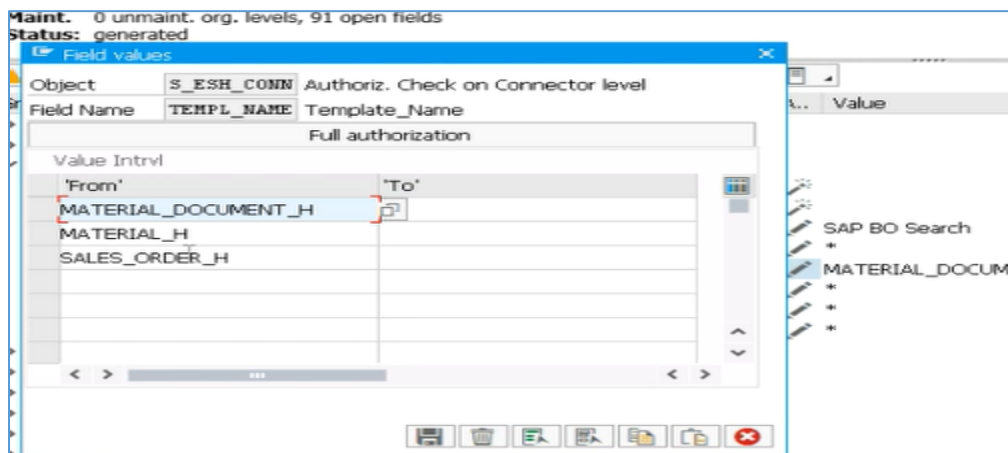
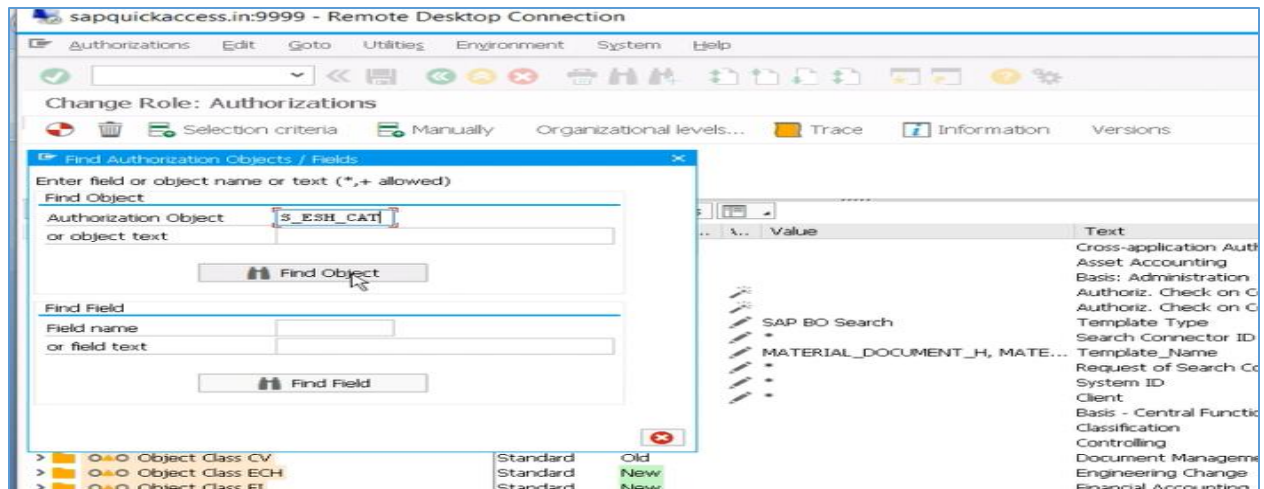
Type	SAP Fiori Tile Catalog
Object	SAP_SD_BC_SO_DISPL
Text	Sales - Sales Order Display

www.thundershare.net

Auth object S_ESH_CONN



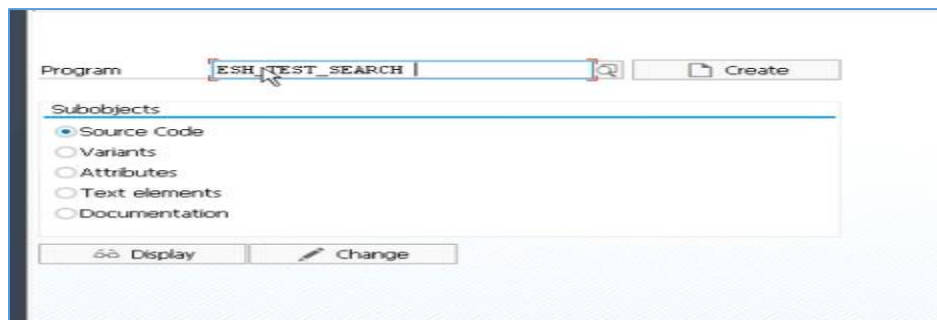
Another authorization object



If search will not displayed, then

Search connector need to be activate if it will not be showing in enterprise search

Go to SE38-Program



Enterprise Search Test

Check Connector
 Add Attributes
 Expert Mode

Search Parameters

From:

To:

Search Scope

Object Type:

Category:

CDS-Entity:

Model ID:

Connector ID:

Request:

Input
 Input
 1:N Analysis

Search Language (optional)

☒ Freestyle Search
☐ Freestyle Search

Search Results - S4H400~0MATERIAL~

All Has Results Errors

Connector	Status	Requ.Type	Conn.Desc.	Results	Total Res.	Runtime	CPU-Time	Time Ratio
S4H400~0MATERIAL~	OOO	MATL_NAV	Material Master Data	0	0	197	0	0,0
S4H400~0MATL_CAT~	OO	DEFAULT	Material Category Text Master Data	11	11	39	0	0,0
S4H400~0MATL_GROUP~	OO	DEFAULT	Material Group Text Master data	2	2	34	0	0,0
S4H400~0MATERIAL_DOCUMENT_H~	OO	MATERIAL_DOCU_REQ	Material Documents	379	379	546	0	0,0
S4H400~0MATERIAL_H~	OO	MATERIAL	Materials	228	228	83	0	0,0
S4H400~0MATERIAL_INVENTORY_H~	OO	MATERIAL_INVENTORY	Physical Inventory	1	1	344	0	0,0
S4H400~0MBOM_APPL_MODEL_H~	OO	MBOM_APPL_MODEL_REQ	Material BOM	17	17	780	0	0,0
S4H400~0MBOM_MODEL_H~	OO	MBOM_REQUEST	Material BOM	17	17	801	0	0,0
S4H400~0MBOM1_H~	OO	MBOM	Material BOM	17	17	536	0	0,0
S4H400~0PROJ_RESERVATION_H~	OOO	DEFAULT	Material Components	0	0	506	0	0,0
S4H400~0VENDOR_MATERIAL_H~	OO	MATERIAL_VENDOR	Materials for Vendor	228	228	9	0	0,0

Material Number Name of Person Who Changed Object Name of Person who Created the Object Created On Date of Last Change Material Group Industry sector Base Unit of Me

And Refresh access for fiori tile & fiori access

Program:

Subobjects:

- ☒ Source Code
- ☐ Variants
- ☐ Attributes
- ☐ Text elements
- ☐ Documentation

Display
 Change

Then display appears

The top screenshot shows the SAP S/4HANA Home page with the 'GL Accounts' menu open. The bottom screenshot shows the search results for 'GL Accounts', displaying three entries: 'Transferred bill/ex. 11000', 'Debtor - other sec. 12000', and 'Cred. - other sec. 13000'. Each entry shows details like Chart of Accounts, Balance Sheet Account, Account Group, and Trading Partner.

Analytical app

Analytical App:

Analytical apps are used to provide role-based real time information about the business operations. Analytical apps integrate the power of SAP HANA with SAP business suite. It provides real time information from large volume of data in front-end web browser.

Ex_ KPI – Key Performance Indicators – Sales, Profit, Expenditure, Debts

Database Table Growth

Application Type
Analytical (SAP Fiori (SAPUI5))
Database
HANA DB exclusive
Form Factor
Desktop, Phone, Tablet
App ID
F0756A

SICF Service: BAS_DTO_MON
O-Data Service: DAAG_DTO_SRV

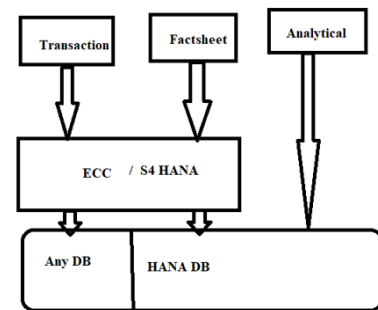
Technical Catalog SAP_BASIS_TCR_T

Target Mapping(s)
Document

Semantic Action
monitorDTG

Business Catalog(s)

SAP_BASIS_BC_ILM



HANA Views – View has to be created in HANA DB by **BW team** (Modellers)
Calculation View (CV)

This HANA view is connected to Analytical App (tile) in FLP – **Fiori Designer**

This tile added into Catalog –> **Fiori Designer**

Catalog/Group is added under ROLE – **Security Consultant**

1st way of creating catalog (Fiori Launchpad :T code UI2/FLPD_CUST)

How to create custom Catalog

Catalog provide access to user by role

You maintain in excel as App ID ,Sementic object/service, OData

App ID	Odata Service	Reference Catalog	Sematic Object	Intent	Action	Custom Catalog ID	Custom Catalog Description
F1705	/SCWM/SIMPLE_INB_PO_SRV	SAP_TC_SCM_EWM_COMMON	EWMPurchaseOrder	createInboundDelivery		ZSES12_BC_CATALOG	Catalog for Session 12
MM03	/SCWM/USER_DEFAULTPARAMETER_SRV	SAP_CMD_BC_PR_MAINT	Material	display			

A: Taking reference from Technical catalog(which is orginal)

- ❖ To check ODATA service active or not ,go to SAP- **IWFND/MAINT_SERVICE**-Click filter option-Take OData sevice from fiori library & paste in External service Name-Check it,you would find ICF node & system aliases should be active
- ❖ Select Catalog-Click **+** give ID like(Bibhu_BC_catalog)& title as per your wish & save it-Choose Technical catalog from fiori library as reference ,search in left side corner as Techniacal catalog like (SAP_TC_SCM_EWM_COMMON) -In tiles tab (Search in right corner as tiles name ,search name like **create inbound deliveries** & select it .
- ❖ Place the mouse in (create inbound deliveries)-Drag ,you will get icon as reference & take this app and drop
- ❖ It will come up in which catalog you want to create the reference-Give our created catalog(Bibhu_BC_catalog),it shows changes are captured in transport
- ❖ Come to Target map tab ,which is intent(Semantic object and semantic action)-Select them & create reference
- ❖ **Note: App will only function when you have tiles & target map**, One of them is missing app will not function
- ❖ Go and search our custom catalog ,tile and target map both are here
- ❖ See if tiles is Blue dotted ,it's a Reference tiles
- ❖ Come to Tiles select the tiles & click ORIGINAL (right Below corner)-it will show from which technical catalog it has been reference from

B: Taking reference from Business catalog(which is Reference one)

- ❖ Take Business catalog & search titlle like Display material-Drag & drop & leave mouse ,select Reference as custom catalog ,which we created (This is tiles)

- ❖ Go to target mapping –Select content –choose create reference(This is Target mapping)
- ❖ Go to target mapping ,do it original ,just to see,it will take you original Technical catalog

We can create catalog and take reference from created custom catalog like Bibhu _BC _Catalog

Note:

My catalog is having 2 tiles (Taken Technical Catalog & Business catalog) & 2 Target Mapping (Semantic Object & semantic action for both business Catalog and Technical catalog) ,it ready to deploy

Delete catalog/app

- Search catalog_drop down –Delete
- Break reference of catalog means disassociated of original catalog & reference one like Master role if deleted ,child role is disassocited,relationship breaks
- Search reference catalog & come to target mapping tab-create reference of Original catalog Go into the reference catalog ,do small changes ,it break reference

Class-6

Deploy

Put into catalog role,Then assign role to user,user will have both apps like Display material & Inbound ,which we created catalog or app

Create role in PFCG

- Go to PFCG-Create single role-Transaction-SAP fiori lunchpad-Lunchpad catalog-Select Local front end server -Mention in catalog ID(as you created now named as Bibhu_BC_Catalog in lunchpad),There is 2 option called 1- Local front-end server (Emdbded system) ,2-Remote front end server (If you click remote front end,Have to give RFC destination & RFC variable)-Include application
- When you add catalog in role ,All the services & transaction are automatically shows under role

Gateway role (IWSG) for frontend system

- ❖ Gateway is frontend system, do not require object level of restriction ,all the restriction are driven by backend system
- ❖ Only service which has to be added in role
- ❖ There is 2 categories of service 1-Gateway service(IWSG ,meta data) ,2-Backend service (IWSV)
- ❖ IWSG service bring only Object S_SERVICE

Three object are required for the role , if I select front end server like embedded system

- ❖ S_SERVICE (mandatory)
- ❖ S_RFC (Its optional)
- ❖ S_RFCCL(Its optional)

Make sure deactivate all service except S_SERVICE

If I select Remote front end server , then S_RFC should be there

If required roe is not there ,we can add in authorization object

Note: Adding transaction in menu, system checks which is maintained for that particular transaction code in SU24,In SU24 what are the object proposal as yes and check yes ,those object will be pulled into role

SU24 can be used to maintain OData service ,similar to that transaction code. OData service like as Transaction code

If Basic team have not created fiori Foundation Task ,even though you add catalog ,service will not be added

If it is not ticked as include application in PFCG ,data is not pulled ,then we can add Manually in authorization like IWSG & IWSV

You can add service without catalog-PFCG-Menu option-Launchpad catalog-Authorization default-Select **15-SAP GatewayBusiness suit enablement(IWSV)** & **14-SAP Gateway-service group metadata (IWSG)** ,In TADIR service ,we can add OData service

IWSG is needed for front end activities

IWSV is needed for backend activities

SU24 data is saved in IWSV(Backend system)

2nd way of creating catalog(Content manager ,T code: UI2/FLPCM_CUST_FLP)

Go to content manager for creating catalog

Here also 3 search criteria option which is Catalog, Tile/Target mapping, Roles

- ❖ Go to Catalog option in SAP-Create it –
- ❖ Go to target mapping Tab –Select tiles /Target mapping -Click on go-see the Technical catalog & business Catalog below, it show automatically, you can crosscheck with fiori library
- ❖ Tile & Target mapping should be there for creating Catalog/app
- ❖ Select Tile/TM-do it add reference to catalog-Search my catalog , which I created now-Go. you will see below catalog –we can select add tile/TM Reference or Add tile reference or Add TM reference, we could select both add tile /TM reference one ,automatically create reference
- ❖ You could find below content ,we could see as design by clicking **Open in designer** tab-It will take you UI2/FLPD_CUST -see in Launchpad

Class-7

In content manger we could check catalog contains role by clicking **SHOW UASAGE IN ROLE**

Group

Group is not access provisioning ,it's a display our content in a more structured way

Basic role in fiori

SAP_UI2_ADMIN_700

SAP_UI2_USER_700

Unless & until app included in group ,user does not able see app in his Launchpad, he can access in 3 ways

- Dropdown in home page ,it will give him catalog view not tiles on screen
- Click profile-App finder-give catalog view-click catalog-get into app
- Can go enterprise search

Whatever you put in group-Take that group into role-Role to user, only those app is visible to the user

Create group

- Create group ,Id & Title-see blank group-add catalog into the group-Click + in tab of **(show as tiles)** -Search my catalog-which ever app you want at launchpad click on + mark
- Go to PFCG-Menu tab-click group ID

We can do link as well: Drag tiles to link

Class-8

Trouble shooting launchpad

- ❖ Debaug mode of browser(click 3 dot-more tool-develop
- ❖ Go to Console-clear this-Refresh

3 thing need to be activated fo fiori lunchpad

- ✚ ZESH_SEARCH_SRV_0001
- ✚ ZINTEROP_0001
- ✚ ZPAGE_BUILDER_PERS_001

Create role with transaction : PFCG-Single role-Menu-Transaction- **/ui2/flp**:that allows user launch Launchpad-Transaction-Authorization default –assign IWSG & IWSV for interop

Can change title of catalog not id in content manager in change title option

Club tiles

Catalog view will be comprehensive, it will be clubbed into one & group view with same title ome up with separate separate in the Launchpad

Class-9

Business catalog :It is a collection of all those apps which are closely bound in terms of business need for those acts

How to create Fiori apps for transaction code

Basic check

- ❖ Upgrading transaction to App, let's assume transaction code is SU01/PFCG
Transaction code : SE93:Maintain transaction, see if SU01 is compatible or not-Display-See below if there is mentioned as SAP GUI for HTML is Tick Mark, This tick mark says that transaction can perform without any trouble on webpage
- ❖ Go to Launchpad designer-Search my catalog-Add tiles-Click **App Launcher-static**-Fill up Navigation part like Title(User maintenance),Sub title (SU01),Action(Manage/Maintain,Semantic object(give existed object which have created before(for creation semantic object : /n/ui2/semobj))-Save it
- ❖ Go to target mapping tab-click **creat target mapping**-Fill up target like tiles before, semantic object,Action-application type(Transaction),Transaction(SU01)-Save it
- ❖ It reflect in catalog view not app ,if you add group into it, it will become app
- ❖ Enduser can modify his Launchpad-edit home page-he can drag & drop or re arrange as he desires,he could change his composition of the group-App finder-It will show catalog view- Pined to that particular group or we can pin to group as well,that will reflect as app in Launchpad
- ❖ We can give control & restrict also to enduser-Select group-choose created group-edit – **remove tick mark** of **enable users to Personalization their group**-save it ,user will not able to alter this group, enduser can not change catalog

Class-10

Before deploying app, should see version ,it s2020 or 21

Catalog does not contain OData service

OData service comes **from app** which you add in catalog

Error found if any:

Check

- OData service is active or not
- Intent should be right
- in menu tab-Go to Launchpad catalog-Authorization default do IWSV & IWSG manually, Go to authorization-full authorization-save it-Generate-refresh page
- ICF node should active
- Check in error log iwfnf/error_log or you can check right click 3dot-more tool-develop tool

RAPID Activation

The rapid activation of SAP Fiori serves as a quick start to experience SAP Fiori for SAP S/4HANA. The overall process of activating SAP Fiori goes through the following main stages. First, it starts with the setup and activation of the SAP Fiori launchpad that will, later on, host the SAP Fiori apps and make them accessible to the end users

Prerequisites

Before you proceed with the task lists for rapid activation of SAP Fiori, make sure that the following prerequisites are met:

- ❖ The SAP Fiori front-end server and its components are deployed alongside the SAP S/4HANA system. This deployment option is known as embedded and is the recommended deployment option for SAP Fiori for SAP S/4HANA systems.
- ❖ Once the SAP Fiori rapid activation task lists have been executed, your SAP Fiori landscape is fully set up. Then, you can focus on moving roles and profiles across systems via transport requests
- 🚦 We run the task & complete those activity for rapidly activity all the services based on your standard business role (SAP_BR_INTERNAL_SALES_REP) BR means Business role
- 🚦 To activate all the Catalog , APPS ,OData service ,SICF node ,Content of catalog Standard business & technical catalog ,everything will run by using the **Rapid activation**

Transaction to run rapid activation:STC01 (SAP TECHNICAL COMPLETION (STC))-Task list ,we can search in 2 way ,1 :*Fiori*Foundation* (,which is Fiori foundation),2 :Fiori*content*act*(fiori content activation)once it is installed by basic team OData service will be added but in SAP pre delivered catalog does not have OData service & manually add it

SAP activate methodology to activate everything In one go

SAP_FIORI_CONTENT_ACTIVATION

SAP_FIORI_FOUNDATION_S4

SAP_FIORI_FOUNDATION_S4:

Run the task

- Scope definition: Fiori Select /confirm SAP business role for FLP content activation(Select business role –save)
- Configuration: Generate new business role with prefix Z

Class-11

Bring SAP menu into Launchpad

Basically we are against this principle ,if any client wants ,then we can do that

- ❖ Go to Content Manager:There is a ready catalog, which can take reference & make it own.when you add the user ,he will have feasibility SAP menu & user menu add catalog ,which is(/UI2/CLASSICAL_GUI_MENU)-add role in menu
- ❖ Go to fiori launchpad-click app finder ,you would see catalog, User menu, SAP menu

Trouble shooting aspect

- SU53
- Iwfnf/error_log : it shows where error might be
- Developer tool(go to 3 dot-mote tool-develop tool)-clear console ,it shows intorope if any no aliases maintain,click on add system alias ,tere is 2 method,one is co-deployed method(Embded) and other is routing method(Central hub),routing method like Inbox app and pfcg app click processing mode changed to routing based

Class-12

Space & page

Go to content manager-create New ID & Title ,once custom id is created-Add tiles and target mapping to it(put Technical catalog)-choose SAP fiori ID-Selet ID-Enter-add tiles /TM reference

Similarly add new catalog

Go to PFCG-Menu-Transaction-Lauchpad catalog-catalog id ,which we have created- go to authorization-generate

Activate OData service-/nstc01-task-SAP fiori content activation,once ODaata service activate,create space and page and tiles map to it

Go to fiori launchpad /n/ui2/flp-Click managed Launchpad spaces-create custome one –tick mark also create page like ID & description,page title-Overview,Transport-create

Click pages tab-make it visiable-save changes

Go to Manage launchpad pages –add tiles to it –click overview

Update space detail in role-Transaction-launchpad spaces-Give space ID-Authorization-save & generate

Assign role to user

Class-13

Intent analysis: /n/ui2/flia

Theme designer:/ui5/theme_designer

You can create theme ,upload logo ,background image,colour as preview

Class-14

Application Card

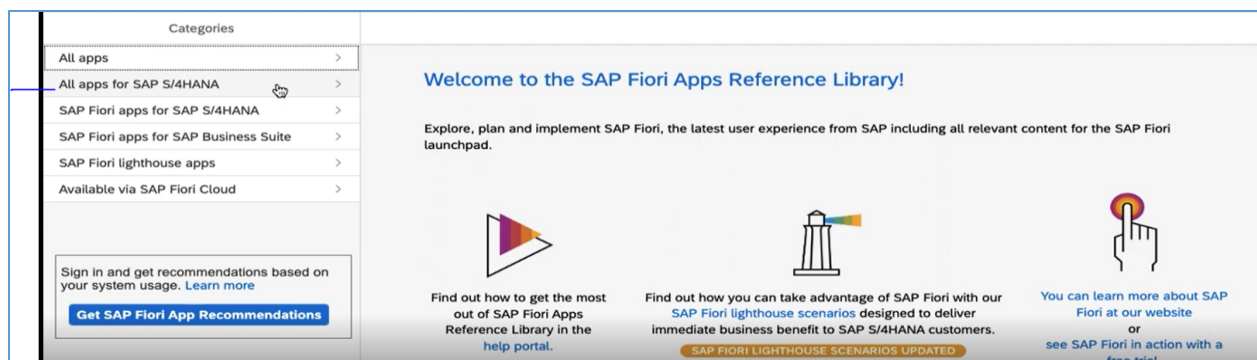
This application card are built on top of services not on app launcher or target mapping,it will built on O data services

The amount of OData service ,you keep adding to overview page ,The number of card increasing

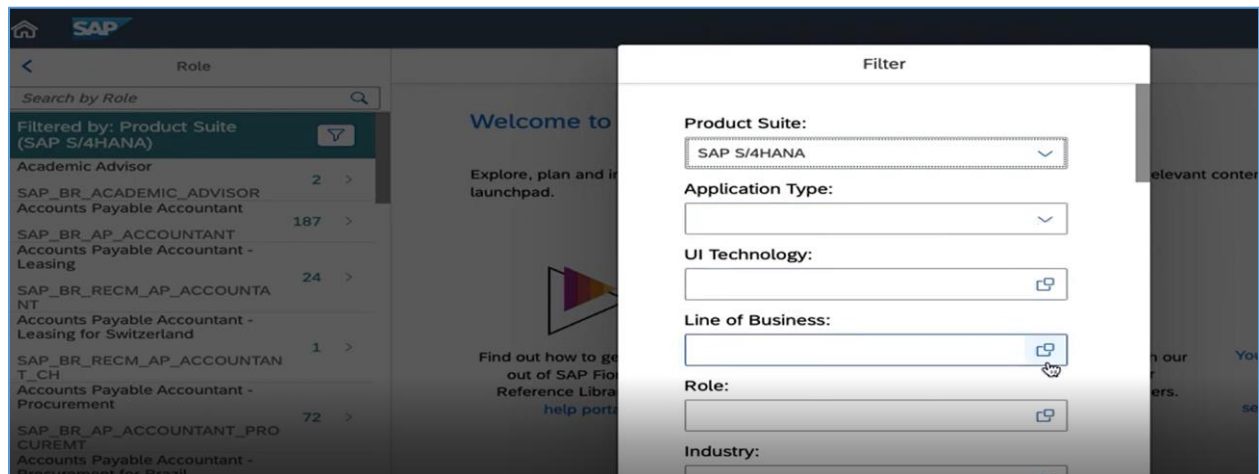
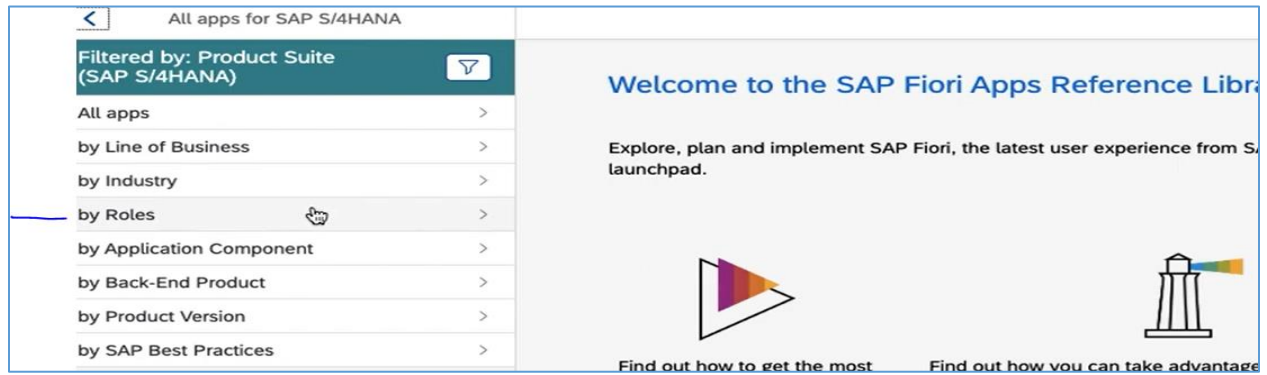
Fiori Practical

1:Activate fiori Apps via Rapid activation

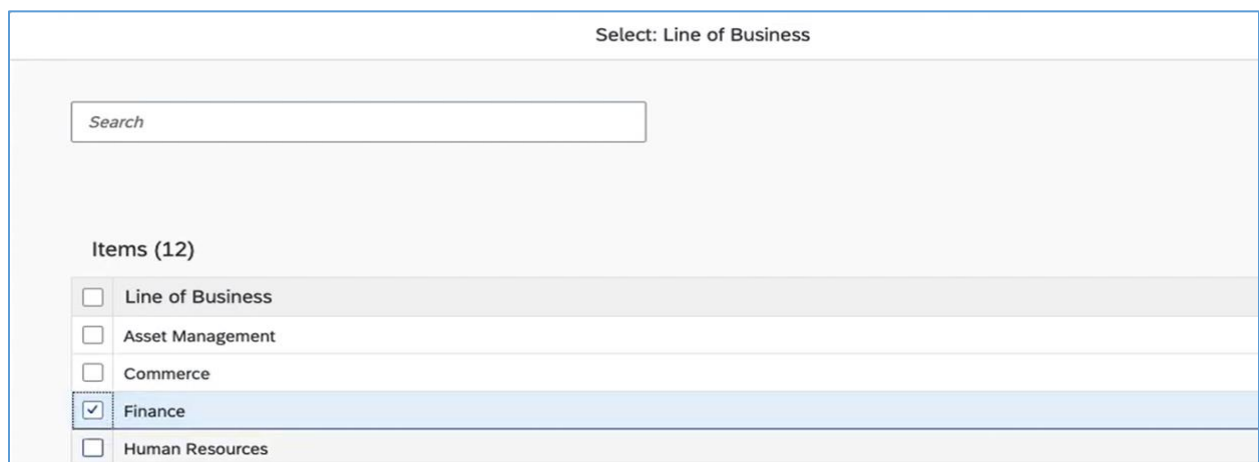
Go to SAP FIORI library-select ALL app for SAP S/4 HANA



Select role tab



For example select finance

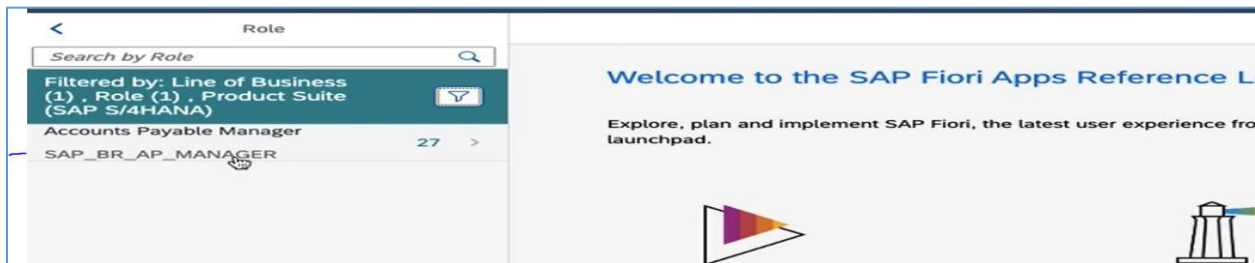


Select AP manager

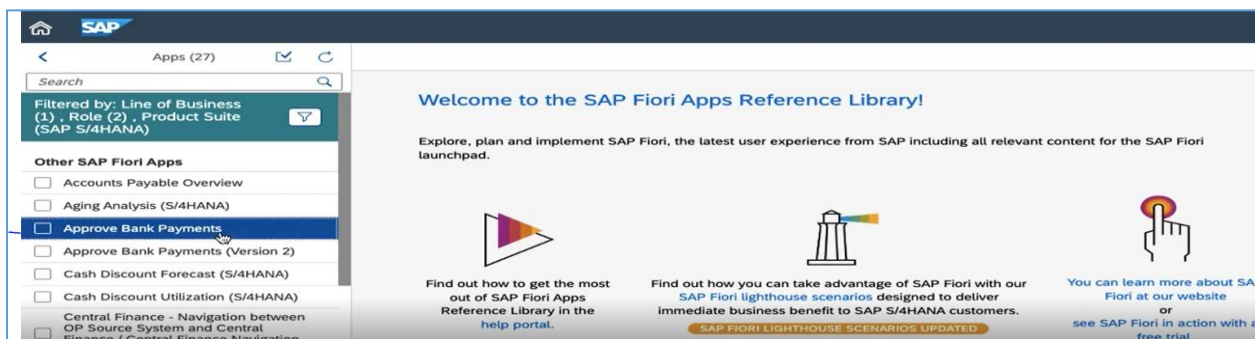
Role	Search
Search by Role	
Filtered by: Product Suite (SAP S/4HANA)	
Academic Advisor	
SAP_BR_ACADEMIC_ADV	
Accounts Payable Accountant	
SAP_BR_AP_ACCOUNTANT	
Accounts Payable Accountant Leasing	
SAP_BR_RECM_AP_ACCOUNTANT	
Accounts Payable Accountant Leasing for Switzerland	
SAP_BR_RECM_AP_ACCOUNTANT_CH	
Accounts Payable Accountant Procurement	
SAP_BR_AP_ACCOUNTANT_CUREMT	

Items (883)	Role Name	Role Description
<input type="checkbox"/>	Role Name	
<input type="checkbox"/>	SAP_BR_AP_ACCOUNTANT_SI	Accounts Payable Accountant for Slovenia
<input type="checkbox"/>	SAP_BR_AP_ACCOUNTANT_SK	Accounts Payable Accountant for Slovakia
<input type="checkbox"/>	SAP_BR_AP_ACCOUNTANT_TH	Accounts Payable Accountant for Thailand
<input type="checkbox"/>	SAP_BR_AP_ACCOUNTANT_UA	Accounts Payable Accountant for Ukraine
<input type="checkbox"/>	SAP_BR_AP_M	Other
<input checked="" type="checkbox"/>	SAP_BR_AP_MANAGER	Accounts Payable Manager
<input type="checkbox"/>	SAP_BR_AP_MANAGER_AR	Accounts Payable Manager for Argentina

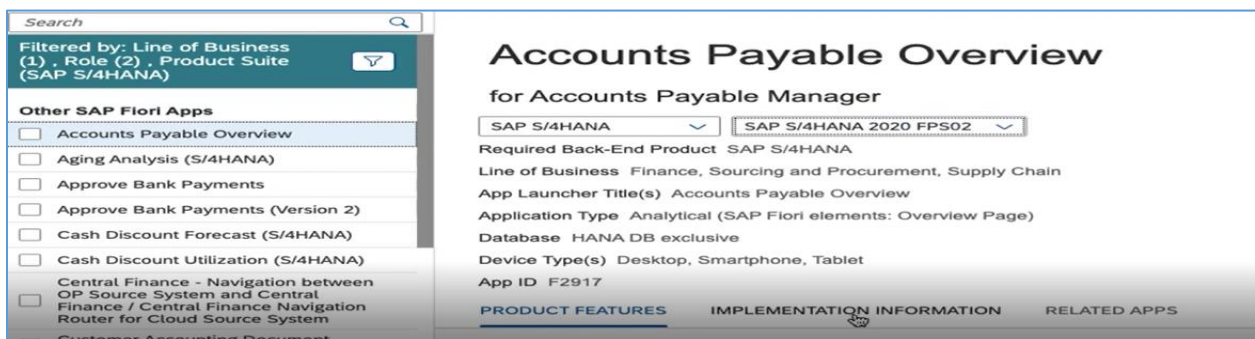
This app has 27 application,select that app

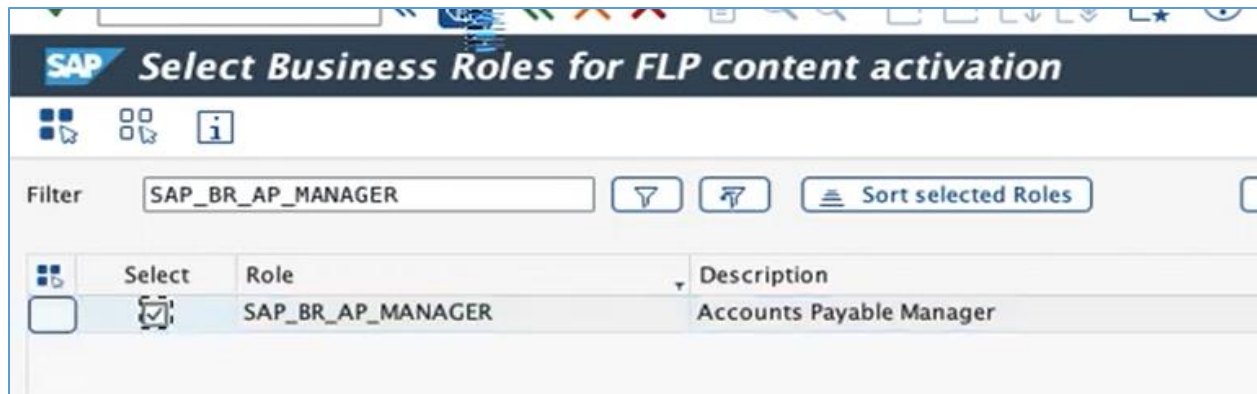


Select Account payable overview for example

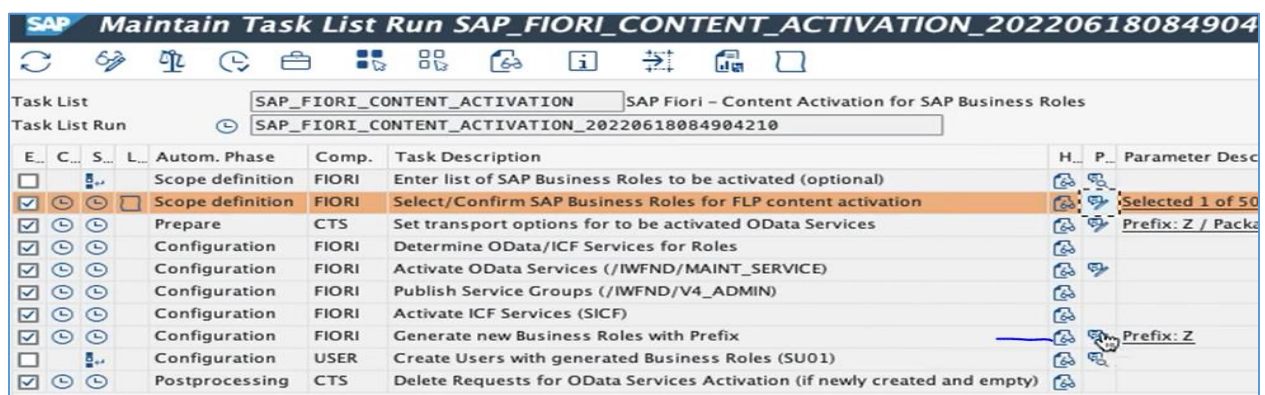


Check version based on your current system

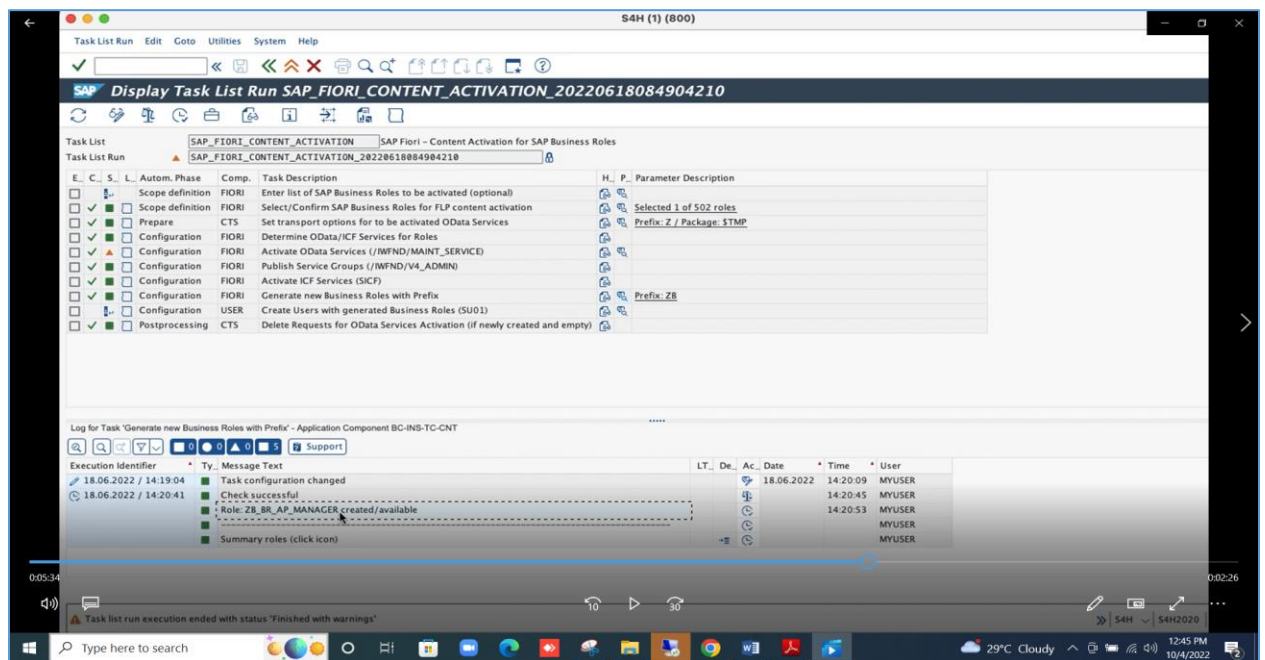
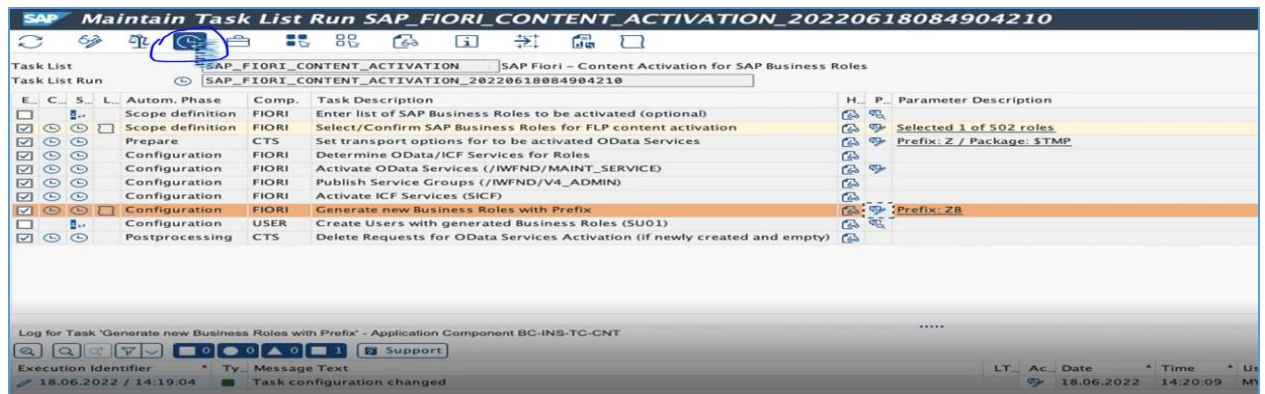




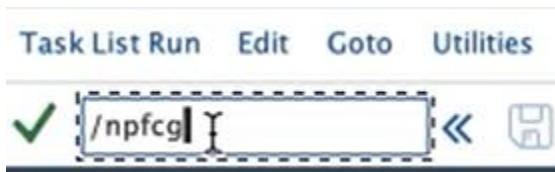
Select prefix of business role & execute it



In order to select log for business role generation,execute it



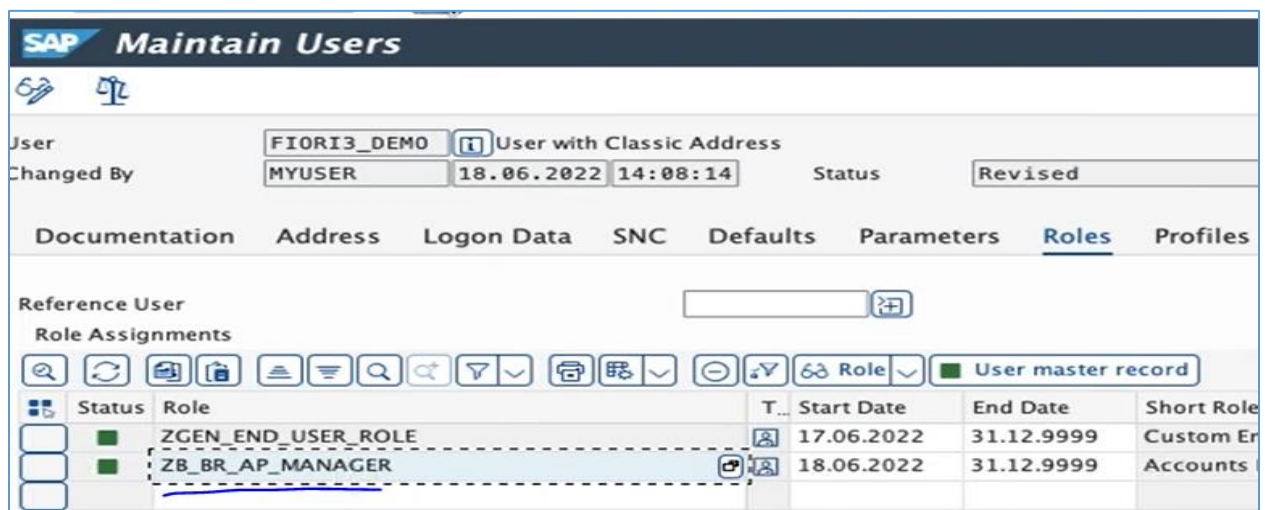
Copy that role –go to pfcg



Paste that role which we have created above

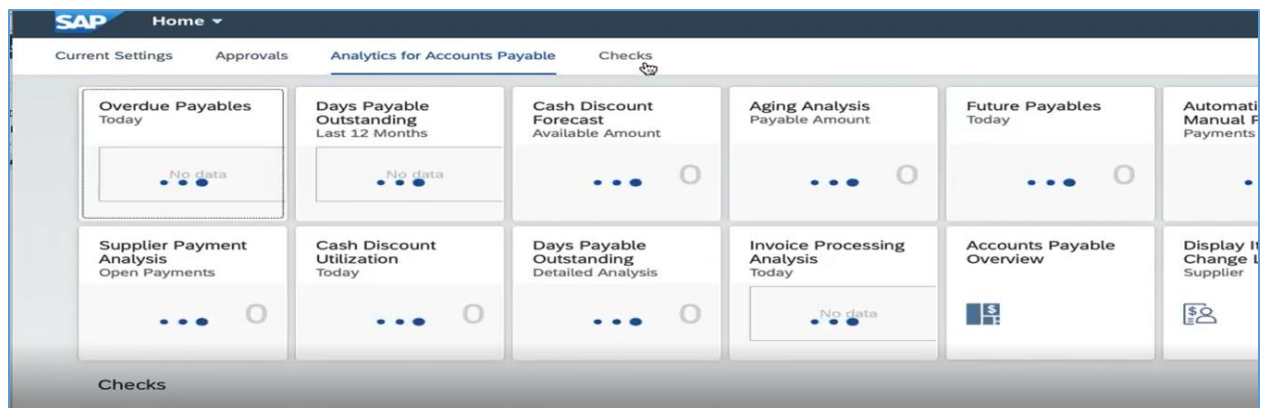


Go to SU01-Assign that role, end user role have already put authorization for access Launchpad-save it



Go to fiori launchpad

See that all app display on launchpad



2-Activate SAP fiori app for custom business role

Transaction code (STC01)-Generate task list run

Create New Task List Display Task List Edit Delete Task List Copy Task List Online Help Generate Task List Run With

* Task List: SAP Fiori - Content Activation for Business Roles

Use this task list to specify one or more custom business role & automatically activate OData service & ICF node

Input for instance below to demonstrate, copy that role

1	Role	Role Description		Catalog	Catalog Title			
2	ZC_BR_GL_ACCOUNTANT	General Ledger Accountant		ZC_GL_ACCOUNTANT	GL Accountant Catalog			
3	Space ID	Space Title						
4	ZC_SP_GL_ACC	General Ledger		User ID	TEST_GLACCT			
5	Page ID	Page Title						
6	ZC_PG_OVERVIEW	Overview						
7	ZC_PG_PERIODIC_ACTIVITIES	Periodic Activities						
8	ZC_PG_JOURNAL_ENTRIES	Journal Entries						
9	Overview	Title/Subtitle/Information	Application Type	Application Resource	SAP Fiori ID	Transaction		
10	Overview	Manage Journal Entries	UI5	fin.gl.documentdisplay	F0717	F0717		
11	Overview	Manage G/L Account Master Data	UI5	fin.gl.glaccount.manage	F0731A	F0731A		
12	Overview	Manage Global Hierarchies	UI5	fin.gl.hierarchy.manage	F2918	F2918		
13	Journal Entries	Manage Journal Entries	UI5	fin.gl.documentdisplay	F0717	F0717		
14	Journal Entries	Audit Journal	UI5	fin.gl.auditjournal	F0997	F0997		
15	Journal Entries	Display Journal Entries	GUI	FB03		FB03		
16	Journal Entries	Display Journal Entries - Cross-Company Code	GUI	FBU3		FBU3		
17	Journal Entries	Display Journal Entries - In T-Account View	UI5	fin.co.accountingimpact.disp	F3664	F3664		
18	Periodic Activities	Manage Posting Periods	UI5	fin.gl.postingperiods.opena	F2293	F2293		
19	Periodic Activities	Analyze Accrual Postings	UI5	fin.gl.ace.analyze.postg	F3732	F3732		
20	Periodic Activities	Analyze Credit Loss Allowances	WDA	FIS_FPM_OVP_IPCC1_CLA:FI	W0134			
21	Periodic Activities	Clear G/L Accounts - Manual Clearing	UI5	fin.gl.manualclearing	F1579	F1579		
22	Periodic Activities	Post with Clearing	GUI	F-04		F-04		
23	Periodic Activities	Reset Cleared Items	UI5	fin.acc.clearing.reset	F2223	F2223		

Enter scope definition of confirm line ,which I have

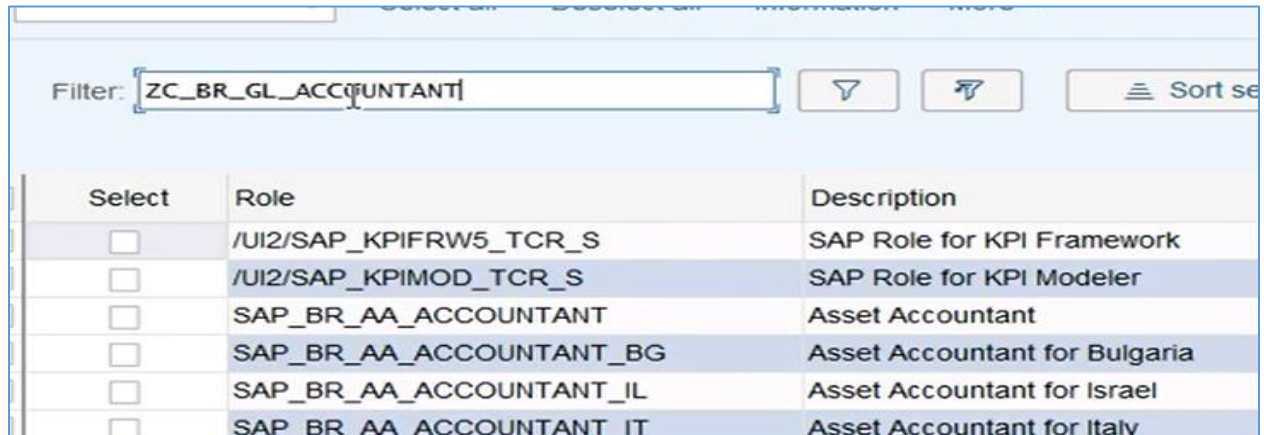
Refresh Task List Run Display/Change Check Task List Run in Dialog Start/Resume Task List Run in Dialog More

Task List: SAP Fiori - Content Activation for Business Roles

Task List Run:

x...	C...	St...	L...	Autom. Phase	Comp.	Task Description	H...	P...	Parameter Description	Tas
				Scope definition	FIOR	Enter list of Roles to be activated (optional)				CL
✓				Scope definition	FIOR	Confirm/Select Roles for FLP content activation			Selected 0 of 631 roles	CL
✓				Prepare	CTS	Set transport options for to be activated OData Services			Prefix: Z / Package: \$TMP	CL
✓				Configuration	FIOR	Determine OData/ICF Services for Roles				CL
✓				Configuration	FIOR	Activate OData Services (/IWFND/MAINT_SERVICE)				CL
✓				Configuration	FIOR	Publish Service Groups (/IWFND/V4_ADMIN)				CL
✓				Configuration	FIOR	Activate ICF Services (SICF)				CL
✓				Configuration	FIOR	Update Role Menu (PFCG)				CL
✓				Postprocessing	CTS	Delete Requests for OData Services Activation (if newly created and empty)				CL

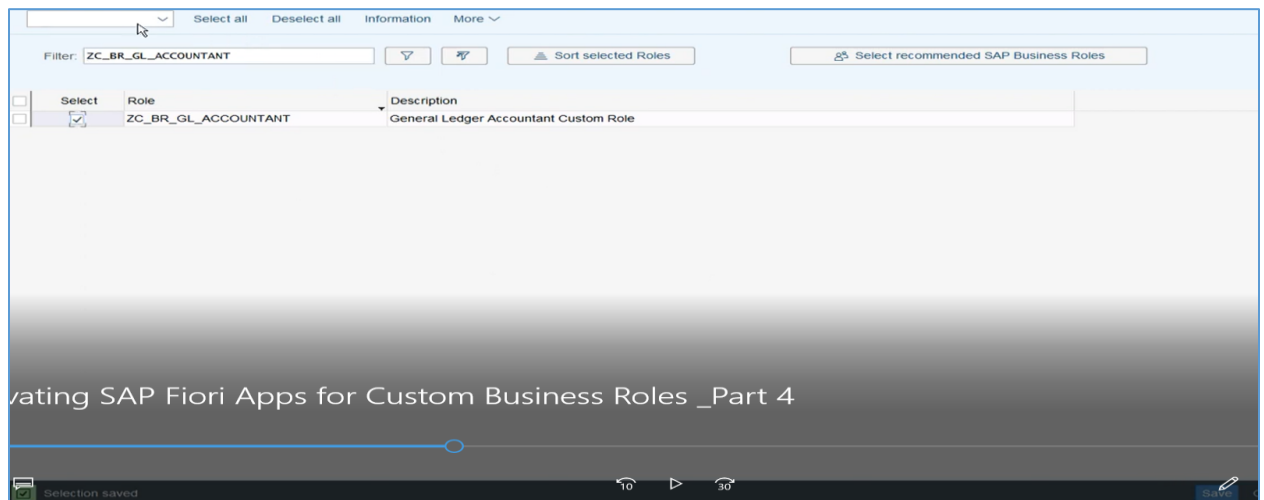
Paste that role



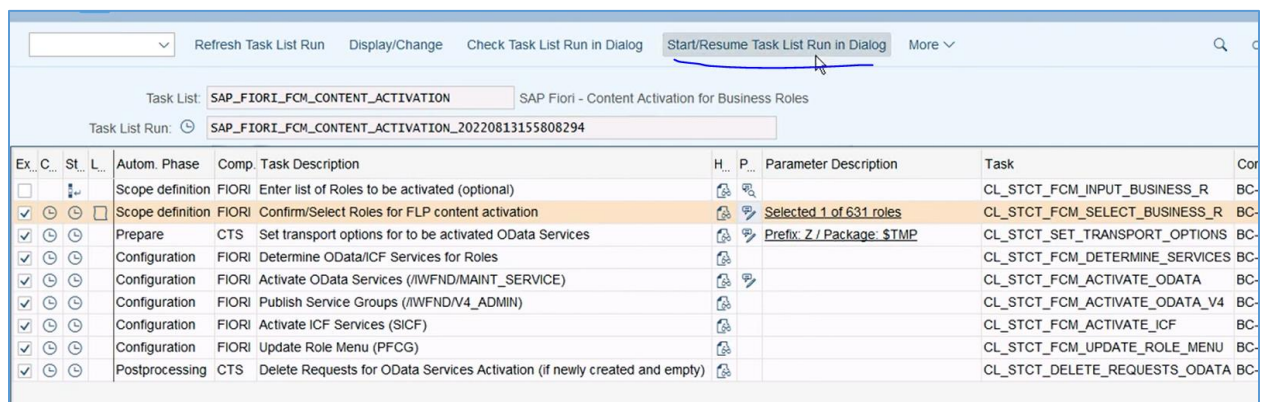
The screenshot shows the SAP Fiori role selection interface. At the top, there is a filter input field containing the text 'ZC_BR_GL_ACCOUNTANT'. Below the filter, there is a table with three columns: 'Select', 'Role', and 'Description'. The table lists several roles, with 'ZC_BR_GL_ACCOUNTANT' highlighted in blue.

Select	Role	Description
<input type="checkbox"/>	/UI2/SAP_KPIFRW5_TCR_S	SAP Role for KPI Framework
<input type="checkbox"/>	/UI2/SAP_KPIMOD_TCR_S	SAP Role for KPI Modeler
<input type="checkbox"/>	SAP_BR_AA_ACCOUNTANT	Asset Accountant
<input type="checkbox"/>	SAP_BR_AA_ACCOUNTANT_BG	Asset Accountant for Bulgaria
<input type="checkbox"/>	SAP_BR_AA_ACCOUNTANT_IL	Asset Accountant for Israel
<input type="checkbox"/>	SAP_BR_AA_ACCOUNTANT_IT	Asset Accountant for Italy

Click & save



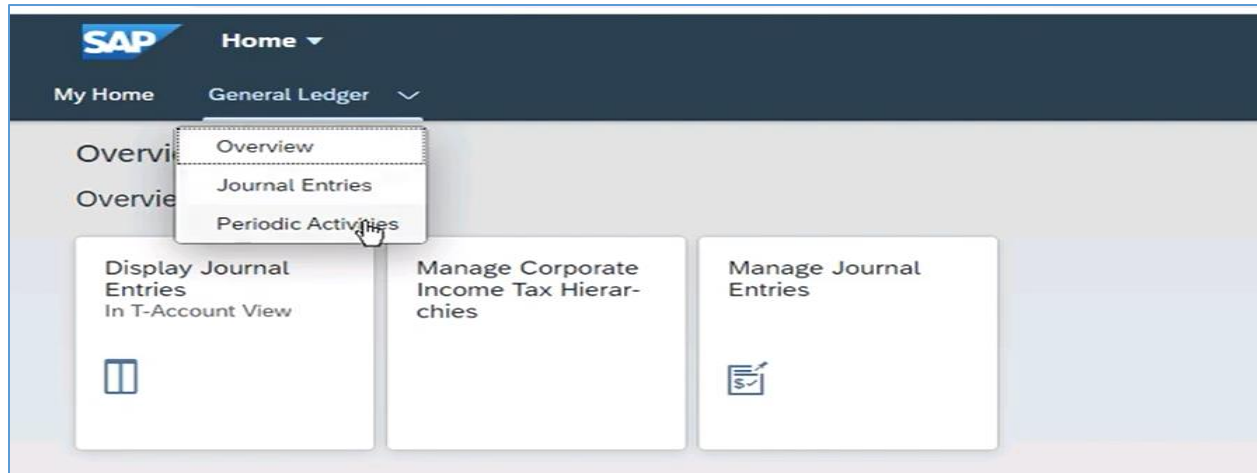
Run in dialog & wait for execution of this



The screenshot shows the SAP Fiori task list interface. At the top, there is a 'Task List' dropdown menu set to 'SAP_FIORI_FCM_CONTENT_ACTIVATION'. Below this, there is a 'Task List Run' dropdown menu set to 'SAP_FIORI_FCM_CONTENT_ACTIVATION_20220813155808294'. The main table displays a list of tasks with columns for 'Ex...', 'C...', 'St...', 'L...', 'Autom. Phase', 'Comp.', 'Task Description', 'H...', 'P...', 'Parameter Description', 'Task', and 'Cor...'. The task 'Scope definition FIORI Confirm/Select Roles for FLP content activation' is highlighted in orange.

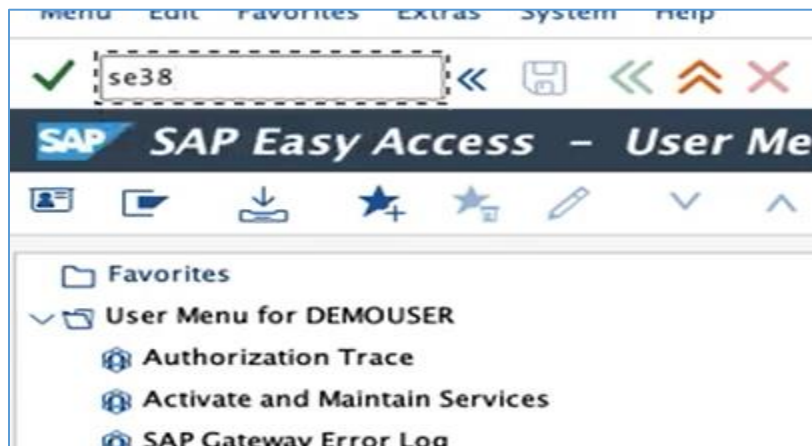
Ex...	C...	St...	L...	Autom. Phase	Comp.	Task Description	H...	P...	Parameter Description	Task	Cor...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scope definition	FIORI	Enter list of Roles to be activated (optional)				CL_STCT_FCM_INPUT_BUSINESS_R	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Scope definition	FIORI	Confirm/Select Roles for FLP content activation			Selected 1 of 631 roles	CL_STCT_FCM_SELECT_BUSINESS_R	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	CTS	Set transport options for to be activated OData Services			Prefix: Z / Package: \$TMP	CL_STCT_SET_TRANSPORT_OPTIONS	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configuration	FIORI	Determine OData/ICF Services for Roles				CL_STCT_FCM_DETERMINE_SERVICES	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configuration	FIORI	Activate OData Services (/IWFND/MAINT_SERVICE)				CL_STCT_FCM_ACTIVATE_ODATA	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configuration	FIORI	Publish Service Groups (/IWFND/V4_ADMIN)				CL_STCT_FCM_ACTIVATE_ODATA_V4	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configuration	FIORI	Activate ICF Services (SICF)				CL_STCT_FCM_ACTIVATE_ICF	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configuration	FIORI	Update Role Menu (PFCG)				CL_STCT_FCM_UPDATE_ROLE_MENU	BC-
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Postprocessing	CTS	Delete Requests for OData Services Activation (if newly created and empty)				CL_STCT_DELETE_REQUESTS_ODATA	BC-

Assign a role to user & see in fiori launchpad

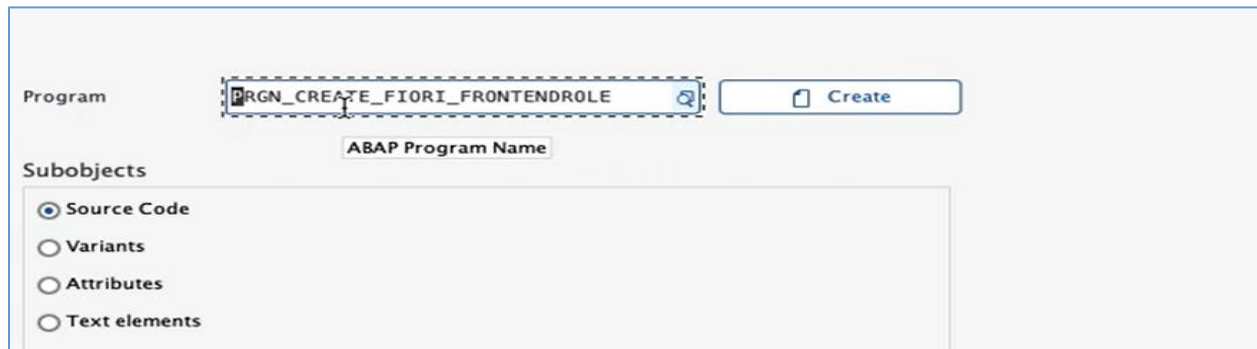


3: Mass Maintenance of business role for fiori launch pad

Ans: Go to SE38



Enter program name



Click without template

SAP Create Front-End Roles for SAP Fiori Launchpad

Processing Mode

☒ Create Roles with Menu

☐ Change Roles and Attach Menu

☐ Change Roles and Replace Menu

Assigning of Fiori Tile Catalogs

☒ Without Template

☐ Import from File

File Name

☐ Generation from Fiori Tile Catalogs

Fiori Tile Catalog to

Namespace for Role: Delete Prefix

Namespace for Role: Add Prefix

For addition click that button

SAP Create Front-End Roles for SAP Fiori Launchpad

Create Roles with Menu

Role	Short Role Description	Type of Menu Entry	Name of the Menu Entry	Type of Menu Entry	Node Text
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

Input for example below

Create Front-End Roles for SAP Fiori Launchpad			
Role	Short Role Description	Type of Menu Entry	Name of Menu Entry
ZS_TEST_ROLE101	Test Role Creation 101	CAT_PROVIDER	ZC_AP_ACCOUNTANT_PAYMENTS
ZS_TEST_ROLE101	Test Role Creation 101	GROUP_PROVIDER	ZG_AP_ACCOUNTANT_PAYMENTS
ZS_TEST_ROLE102	Test Role Creation 102	CAT_PROVIDER	ZC_TEST1_CATALOG2
ZS_TEST_ROLE102	Test Role Creation 102	GROUP_PROVIDER	ZG_TEST_GROUP2

Paste it there in Launchpad(Select all the line item & execute it)

SAP Create Front-End Roles for SAP Fiori Launchpad

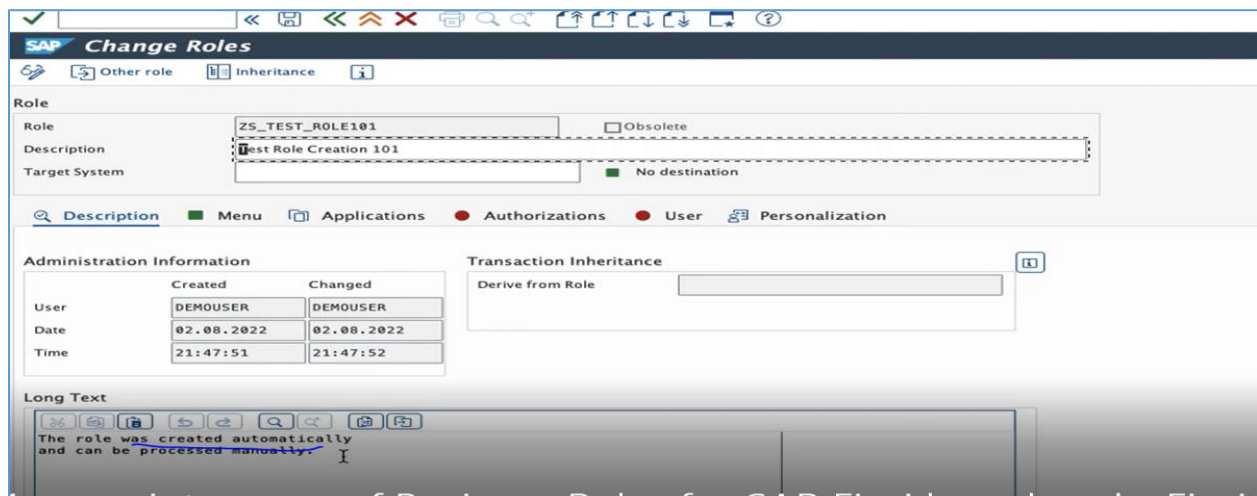
Create Roles with Menu

Role	Short Role Description	Type of Menu Entry	Name of the Menu Entry	Type of Menu Entry	Node Text
<input checked="" type="checkbox"/> ZS_TEST_ROLE101	Test Role Creation 101	CAT_PROVIDER	ZC_AP_ACCOUNTANT_P..	Launchpad Catalog	AP Accountant Payments
<input checked="" type="checkbox"/> ZS_TEST_ROLE101	Test Role Creation 101	GROUP_PROVIDER	ZG_AP_ACCOUNTANT_P..	Launchpad Group	Payment
<input checked="" type="checkbox"/> ZS_TEST_ROLE102	Test Role Creation 102	CAT_PROVIDER	ZC_TEST1_CATALOG2	Launchpad Catalog	Test Catalog
<input checked="" type="checkbox"/> ZS_TEST_ROLE102	Test Role Creation 102	GROUP_PROVIDER	ZG_TEST_GROUP2	Launchpad Group	Test Group



Go to individual role & do maintenance

Go to PFCG-paste there role



Do authorization & save it

4:Launchpad content Aggregator

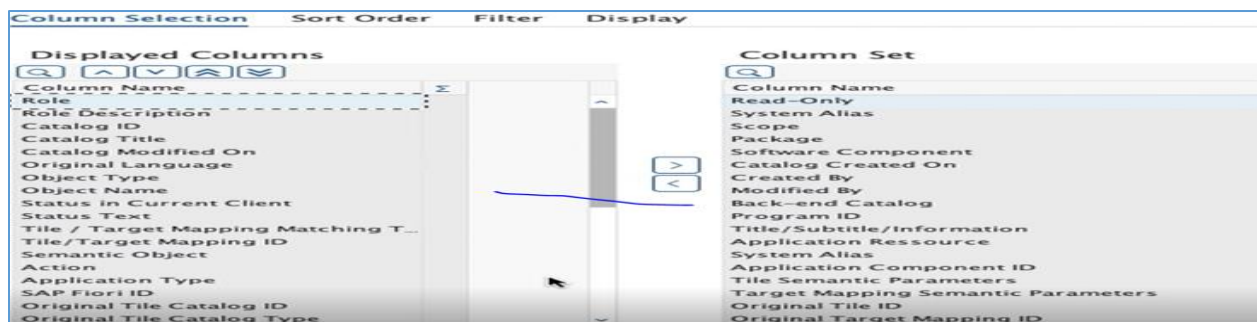
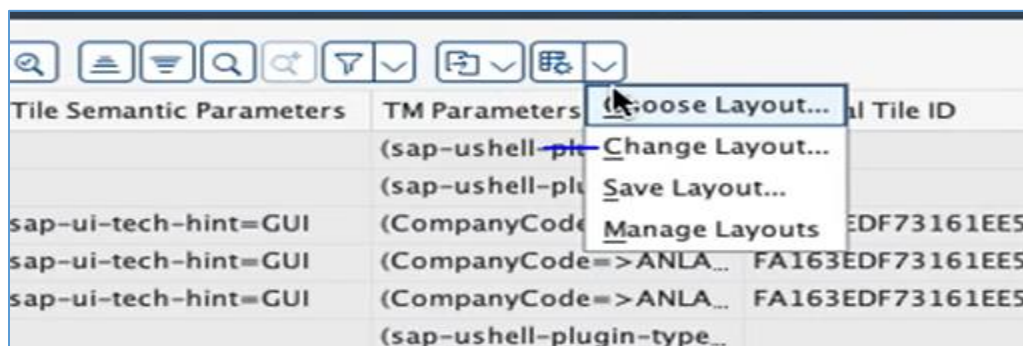
- It is a tool that helps analyses SAP FIORI Launchpad content,
- it allows administrator to create an aggregated view of all sap fiori Launchpad content assigned to set of roles and for the service required run the application
- T code is /n/ui2/flpca

Put the role which you want to see inrole filter column-select display OData & ICF-execute



Role	Role Description	Catalog ID	Catalog Title
SAP_BR_AA_ACCOUNTANT	Asset Accountant	SAP_SFIN_BC_AA_CONSTR	Asset Accounting - Asset Under Constr
		SAP_SFIN_BC_AA_CURR_SET	Asset Accounting - Current Settings

We can extract as per our requirement



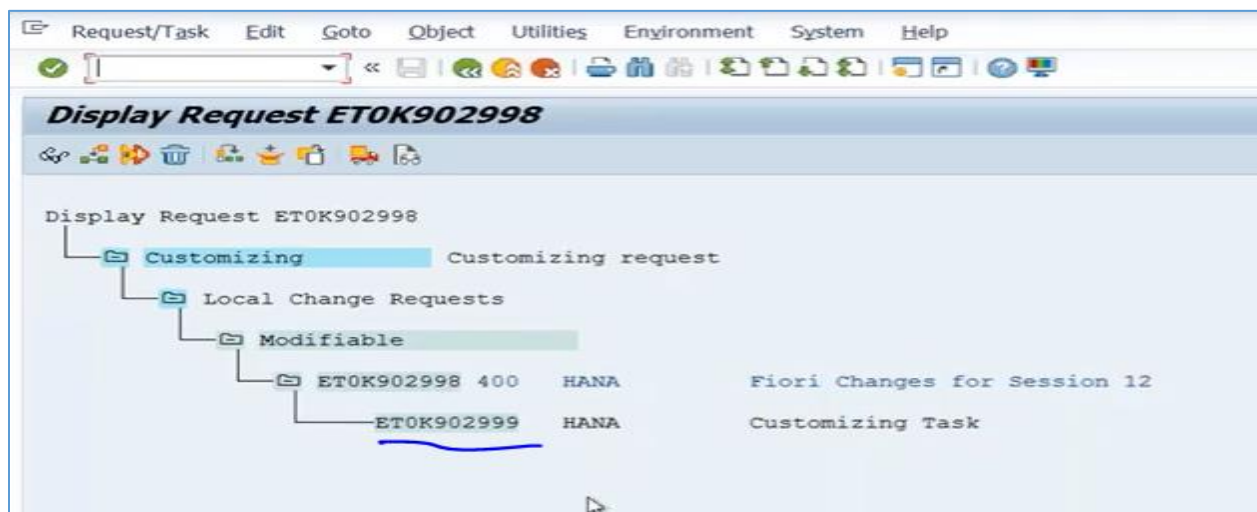
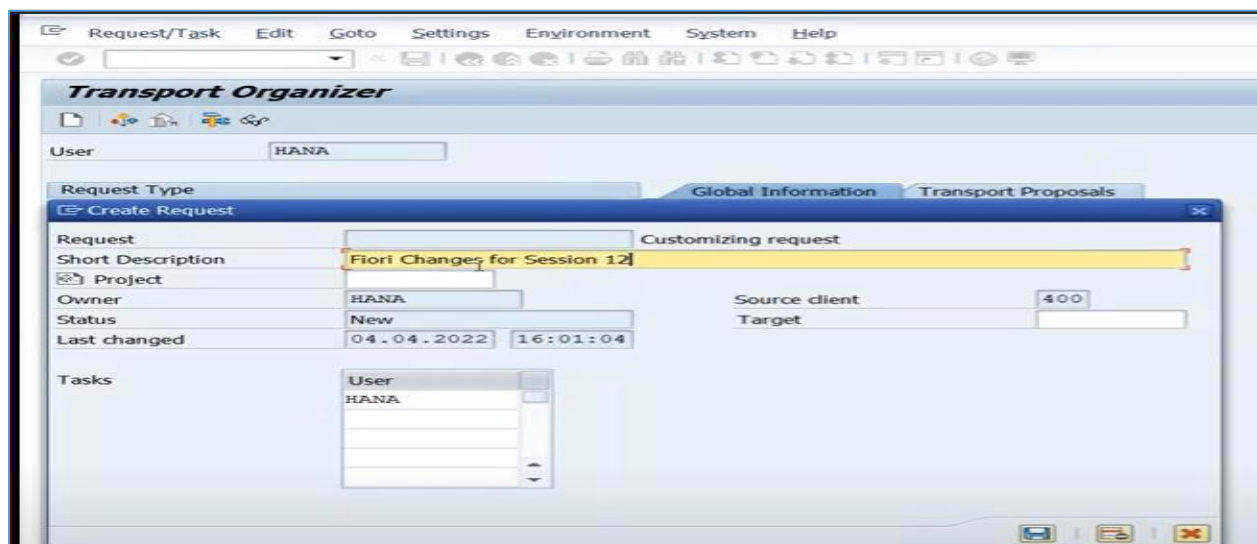
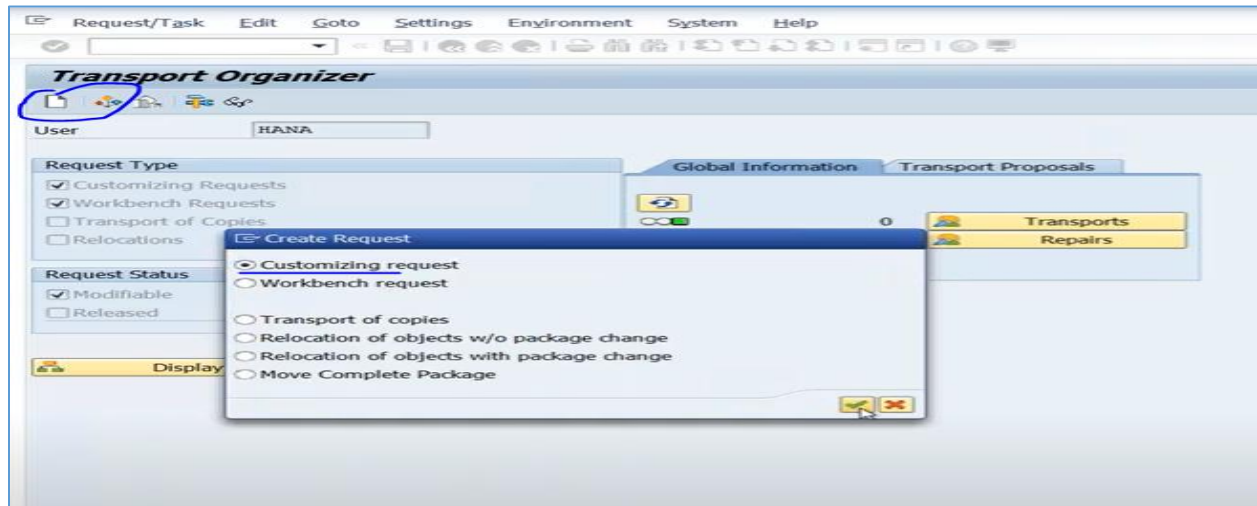
Create catalog

Catalog will be created in 2 ways , which is Fiori Launchpad and other is content manager

A:Fiori launchpad(/N/UI2/FLPD_CUST)

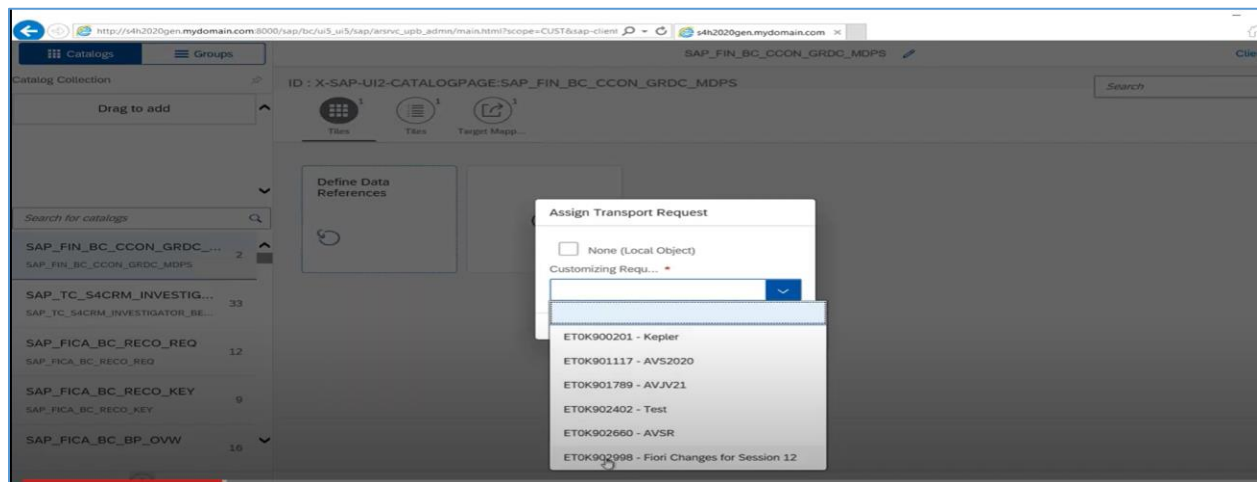
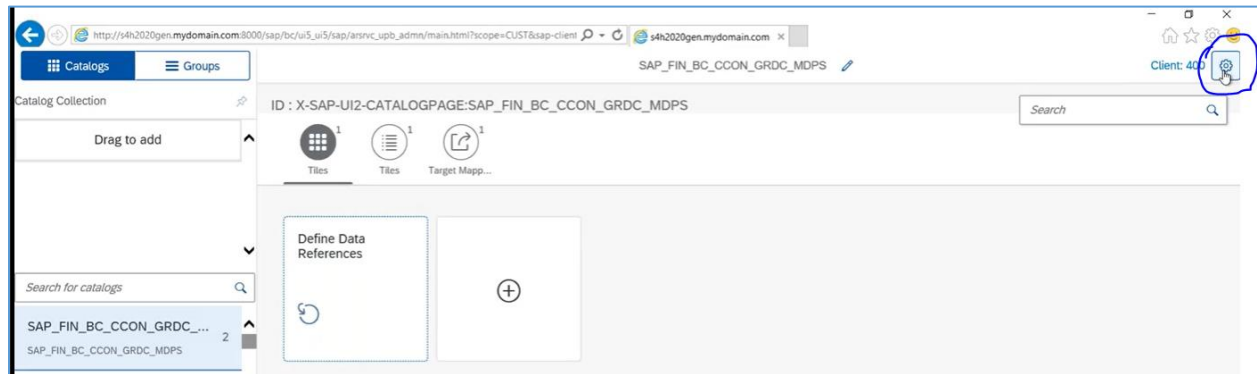
Before creating catalog, prerequisite is need to have transport, so that we can capture everything which happening on this particular portal into particular transport

T code SE09 for transport



Go back to portal

Before you start developing catalog, need to make any adjustment or setting so that changes are captured in transport, select setting



Every changes are captured in transport

For Creating catalog,gataher 5 thing

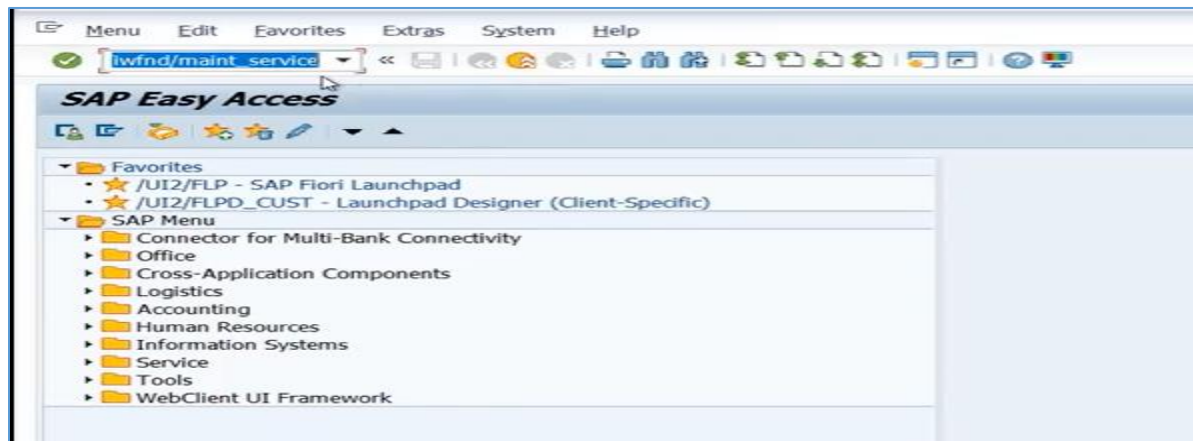
- APP ID
- ODATA SERVICE
- Reference catalog, it can be technical catalog, business catalogs or custom technical catalog
- Semantic object
- Semantic Action

Input is here for example below

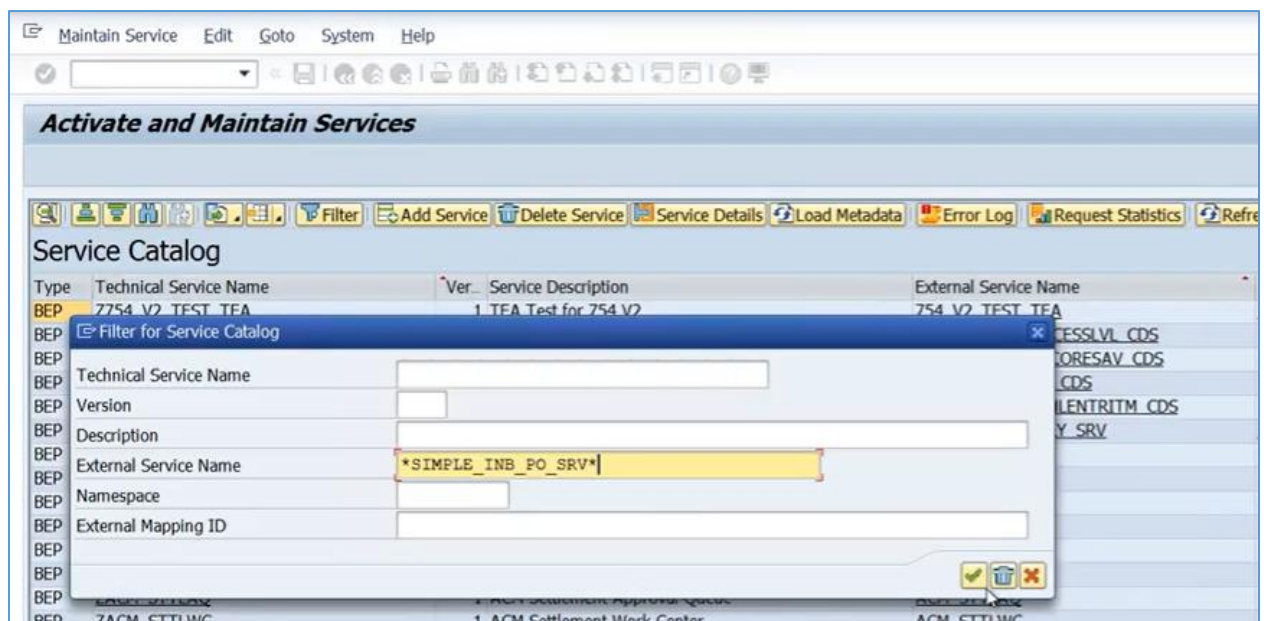
C	D	E	F	G	H	I	J	K
App ID	Odata Service	Reference Catalog	Sematic Object	Action	Intent	Custom Catalog ID	Custom Catalog Description	
F1705	/SCWM/SIMPLE_INB_PO_SRV	SAP_TC_SCM_EWM_COMMON	EWMPurchaseOrder	createInboundDelivery		ZSES12_BC_CATALOG	Catalog for Session 12	
MM03	/SCWM/USER_DEFAULTPARAMETER_SRV	SAP_CMD_BC_PR_MAINT	Material	display				

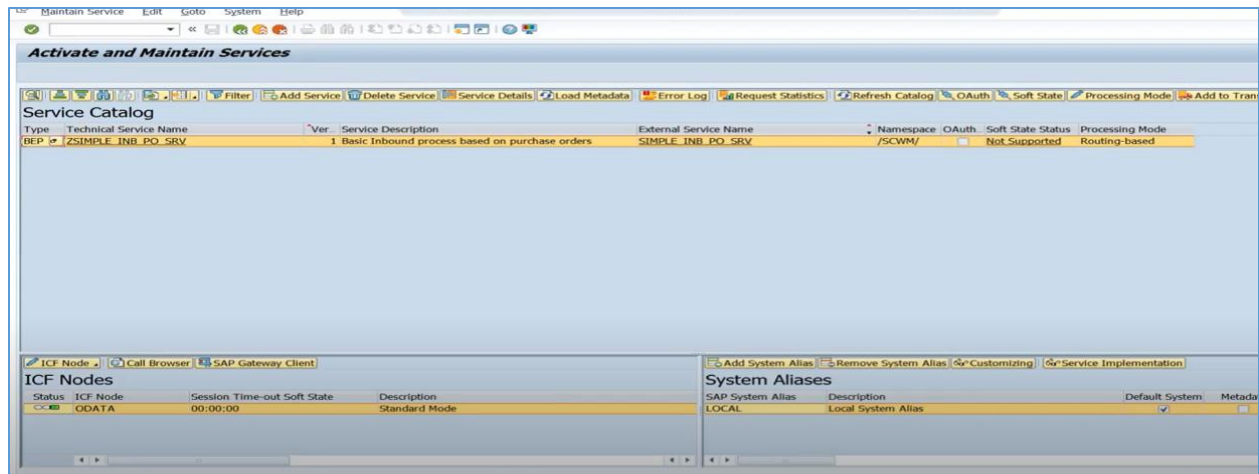
Create Custom catalog

- ❖ To check ODATA service active or not ,go to SAP-

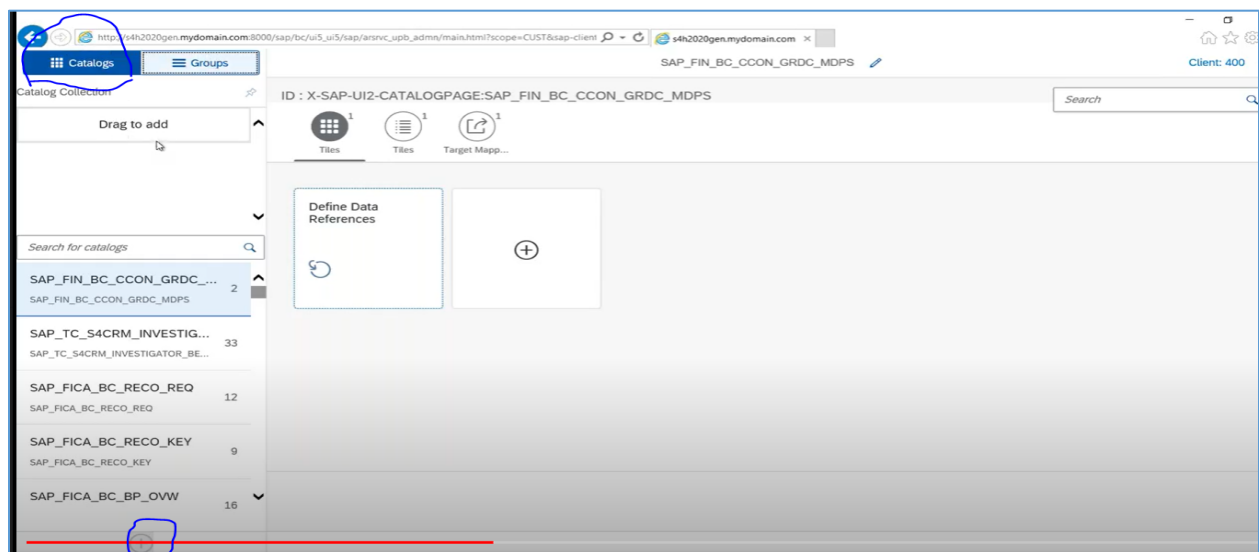


To check ODATA service active or not ,go to SAP- IWFND/MAINT_SERVICE-Click filter option-Take OData service from fiori library & paste in External service Name-Check it,you would find ICF node & system aliases should be active

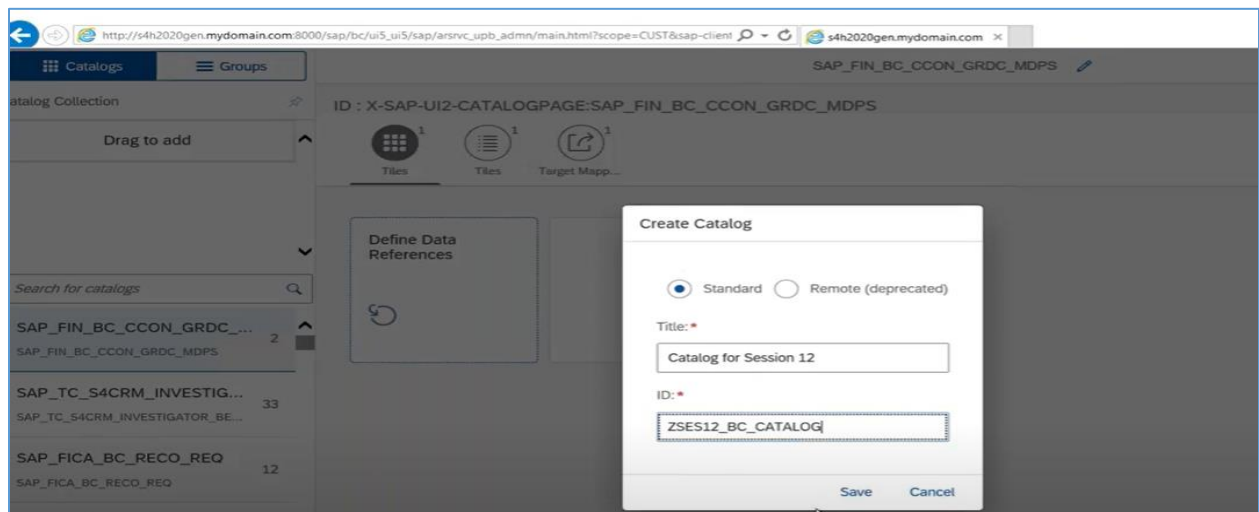




Go back fiori launchpad customization(/N/UI2/FLPD_CUST)



TO create catalog –select +button below,ID should be unique



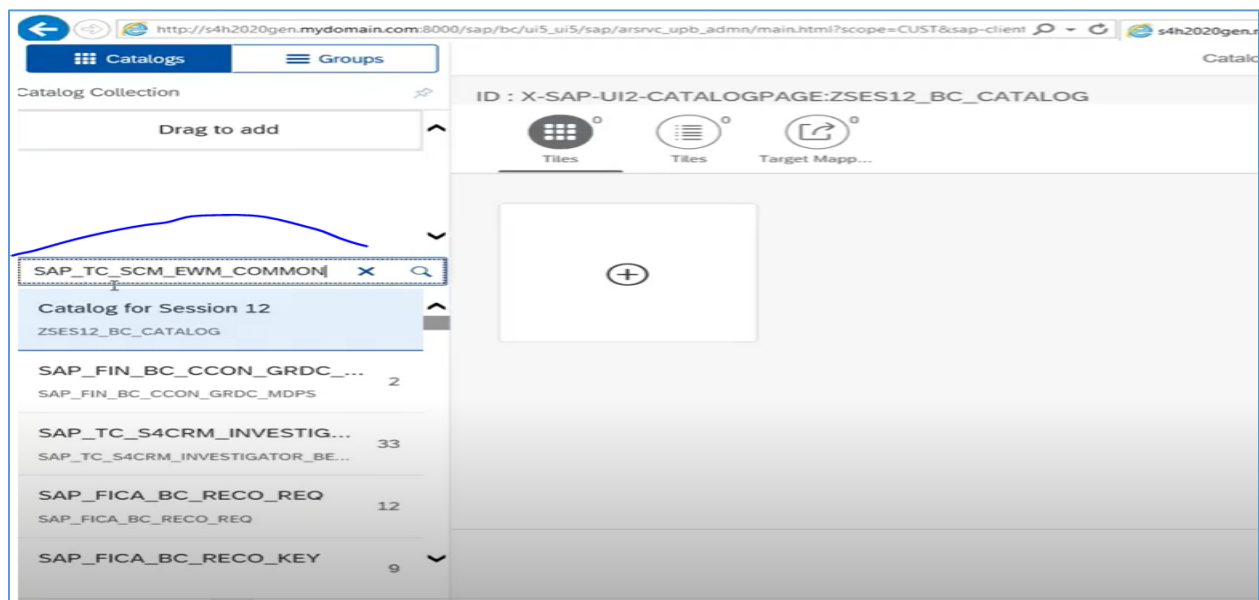
C	D	E	F	G	H	I	J
App ID	Odata Service	Reference Catalog	Sematic Object	Intent	Action	Custom Catalog ID	Custom Catalog Description
F1705	/SCWM/SIMPLE_INB_PO_SRV	SAP_TC_SCM_EWM_COMMON	EWMPurchaseOrder	createinboundDelivery		ZSES12_BC_CATALOG	Catalog for Session 12
MM03	/SCWM/USER_DEFAULTPARAMETER_SRV	SAP_CMD_BC_PR_MAINT	Material	display			

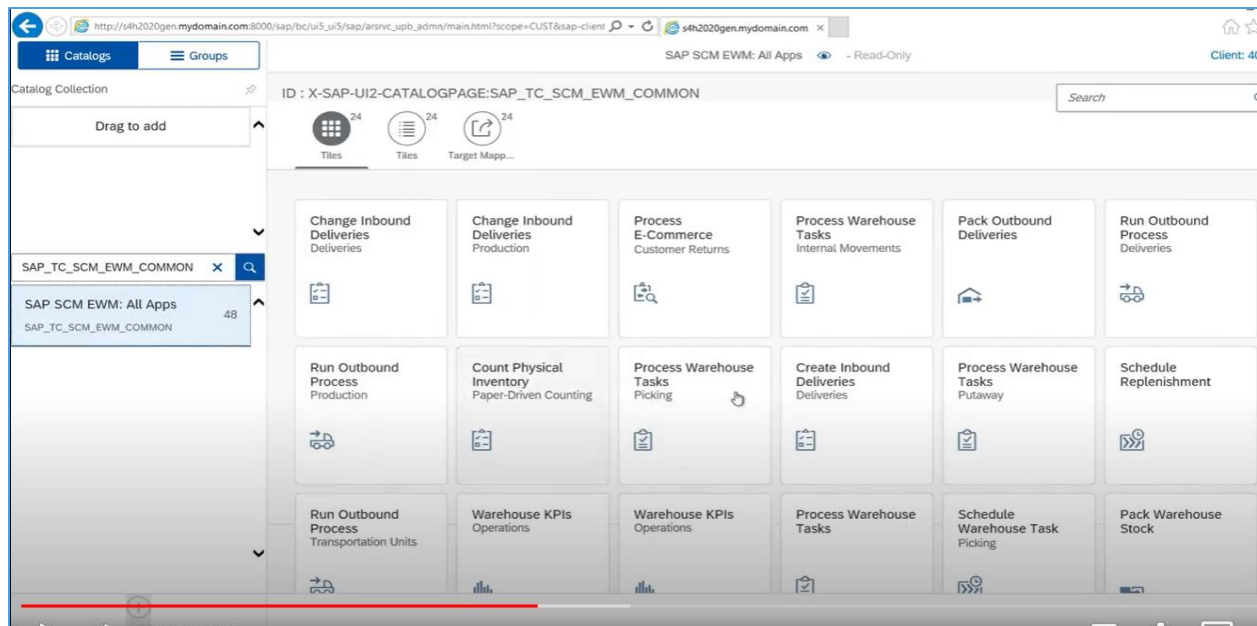
Take Reference from Technical Catalog & business catalog for instance of creating catalog

Catalog (Technical,Business & Custom)

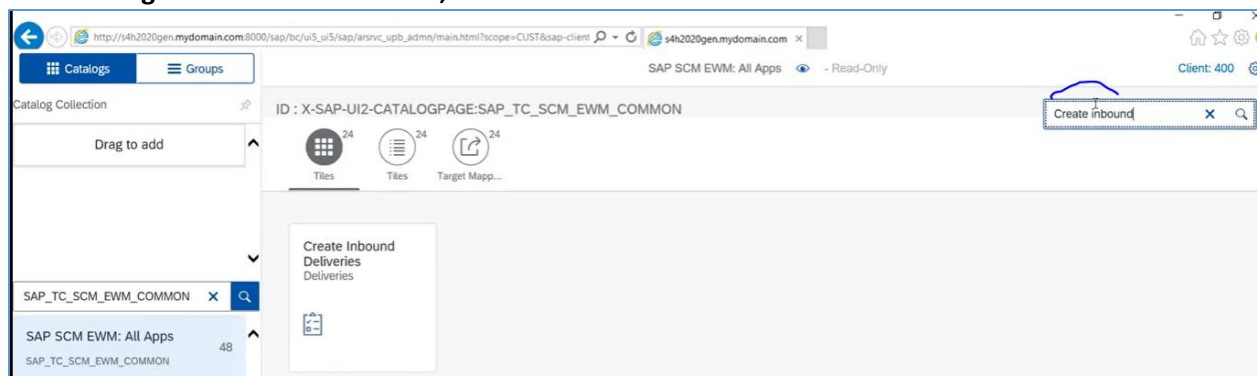
A:Taking reference from Technical catalog(which is orginal) APP ID 1705

Select Catalog-Click + give ID like(Bibhu_BC_catalog)& title as per your wish & save it-Choose Technical catalog from fiori library as reference ,search in left side corner as Technicacal

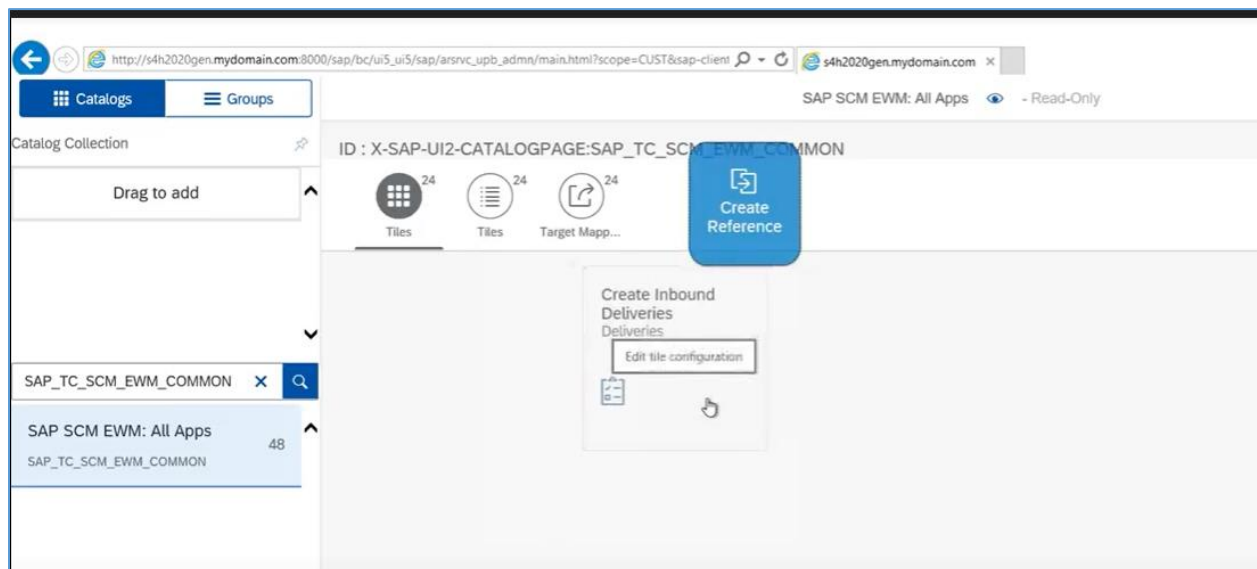


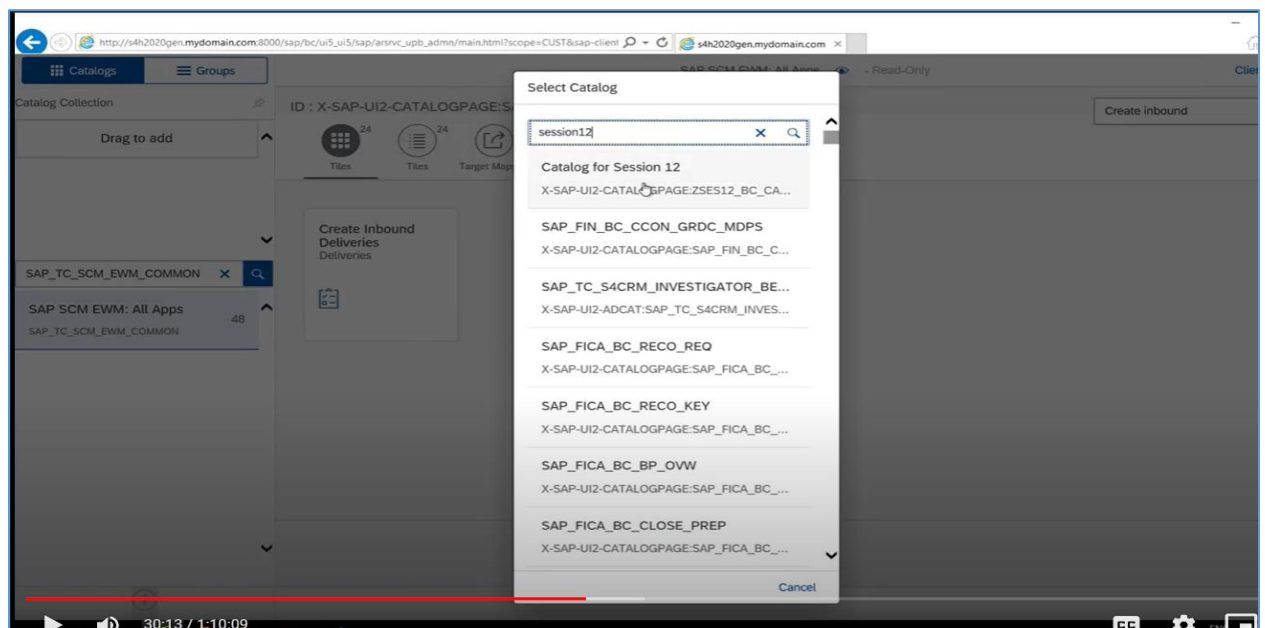
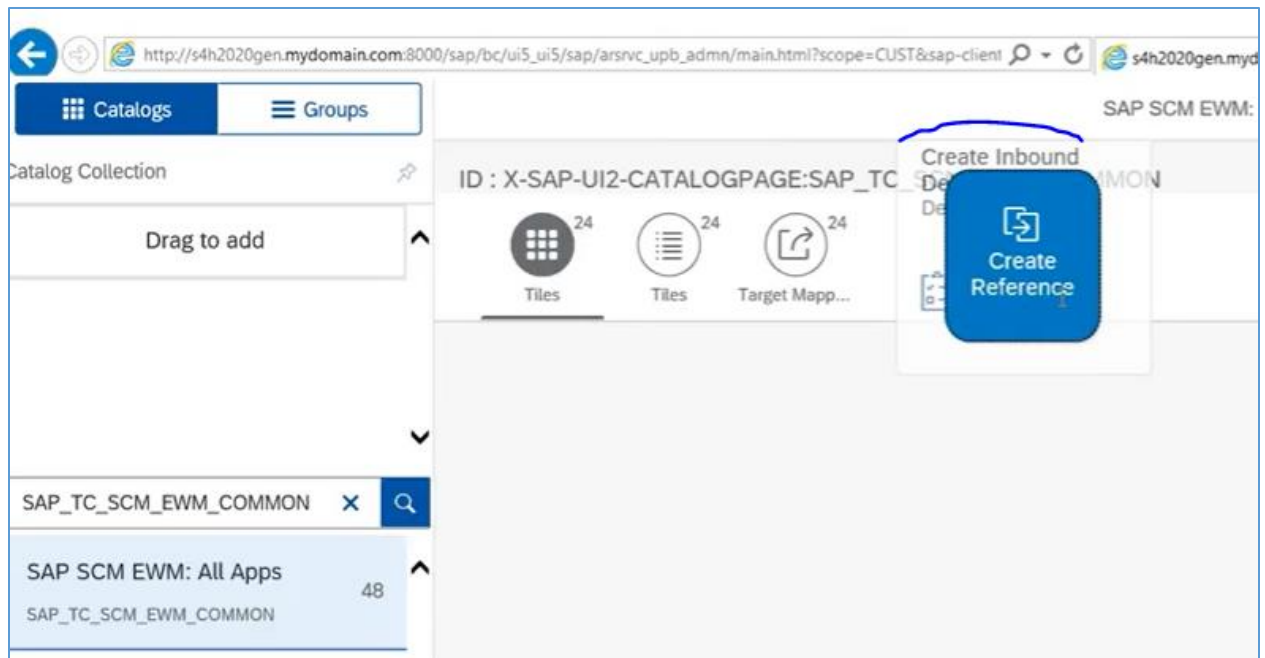


Search in right corner as tiles name ,search name like create inbound deliveries & select it .

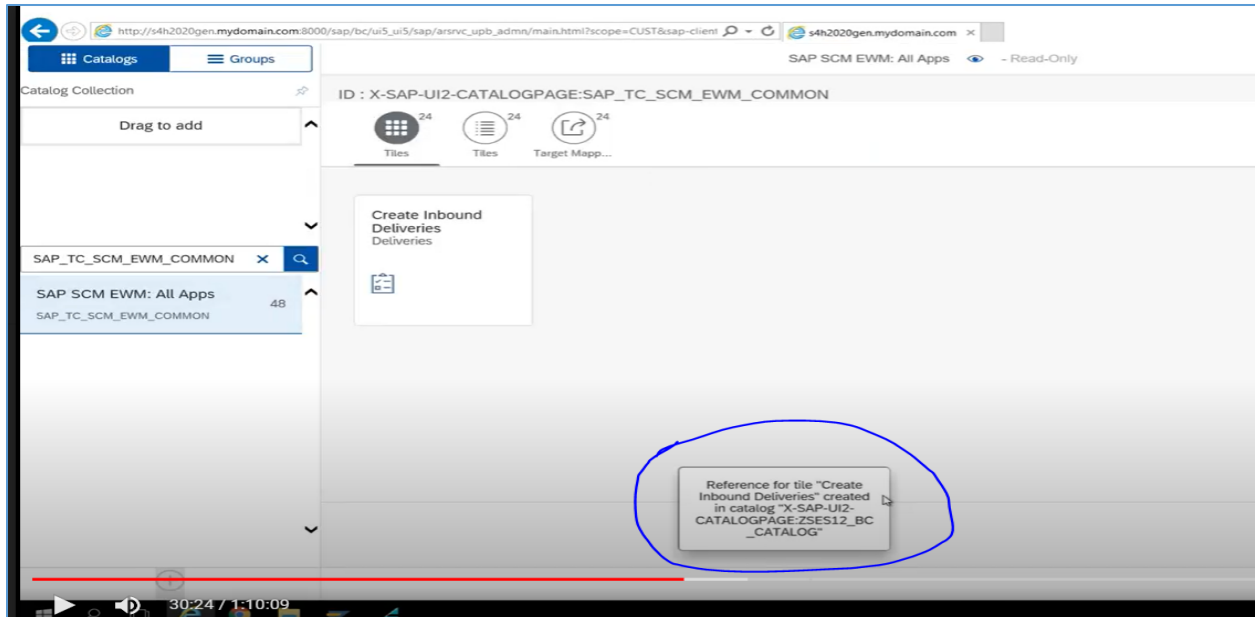


For getting reference-drag it

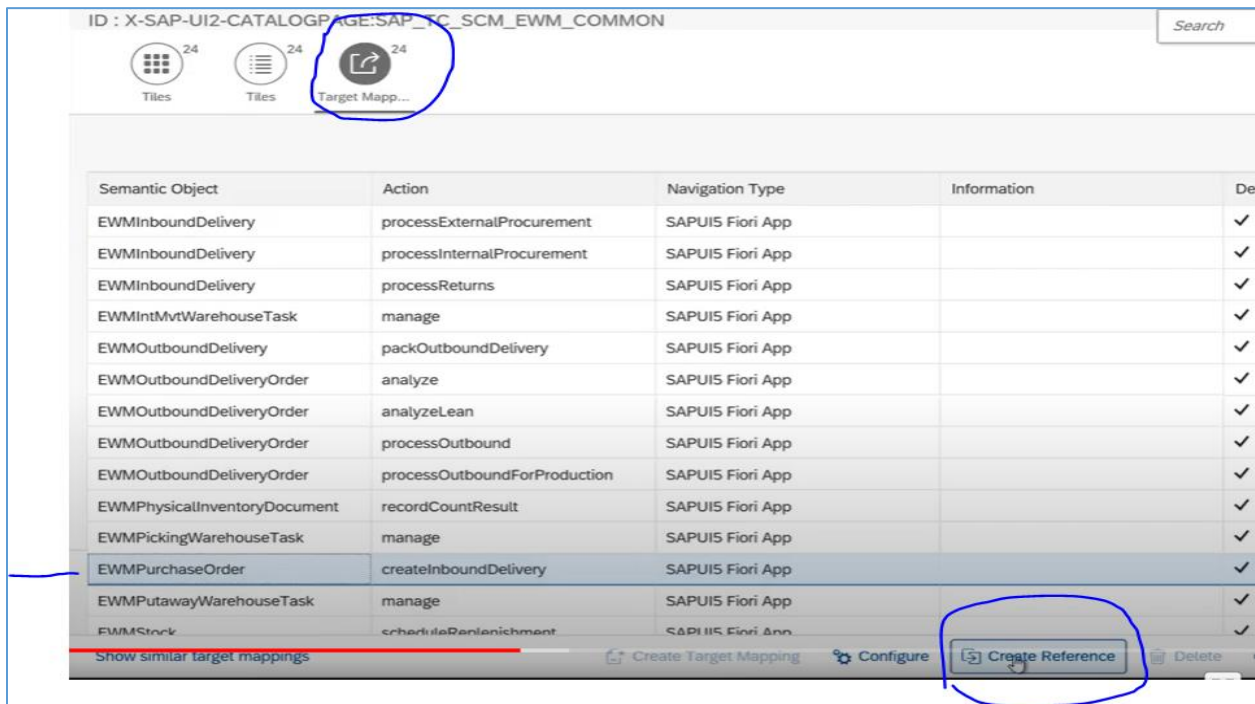




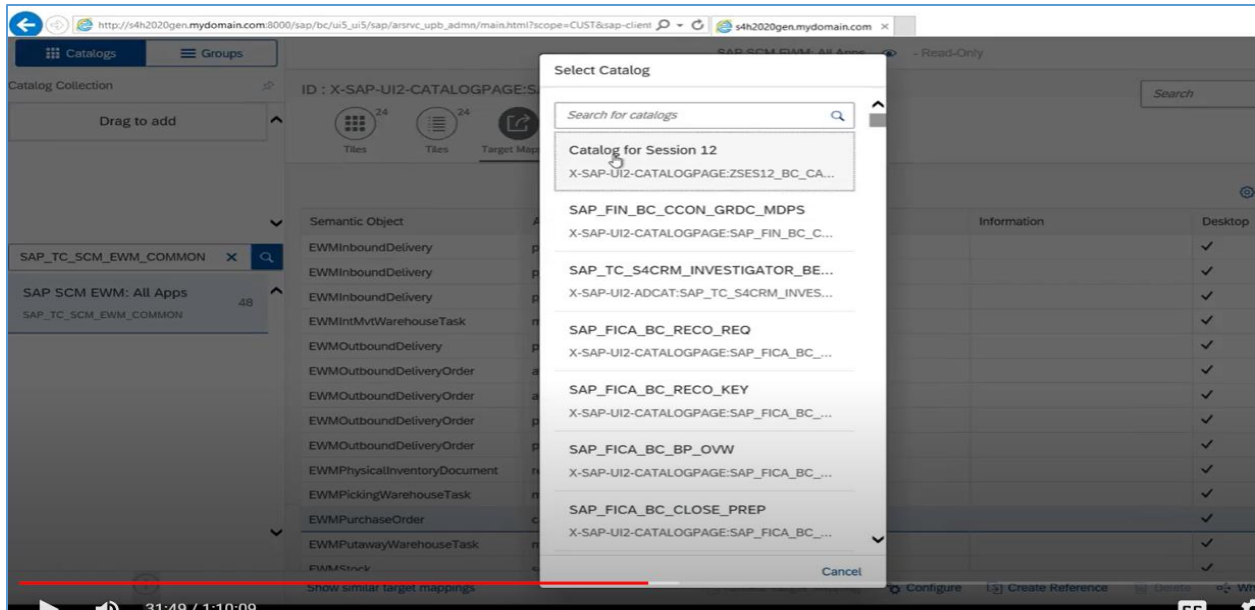
After selecting new catalog ,which we created,message comes that changes are captured in transport



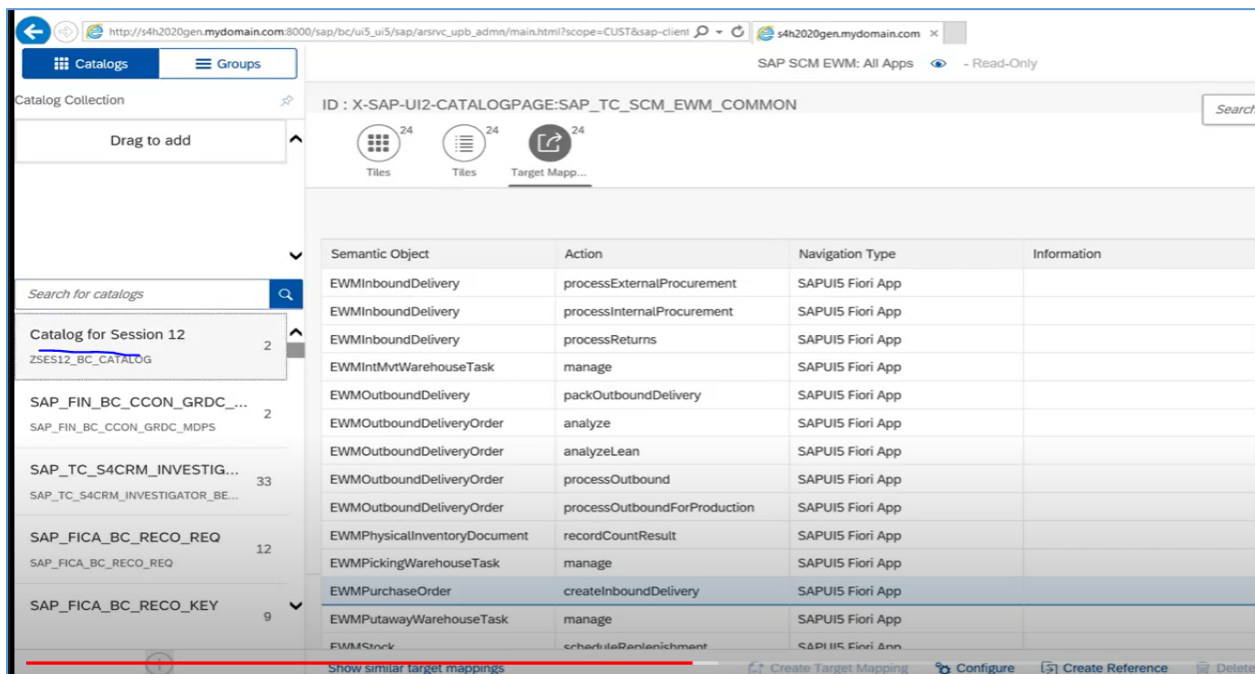
Select target mapping



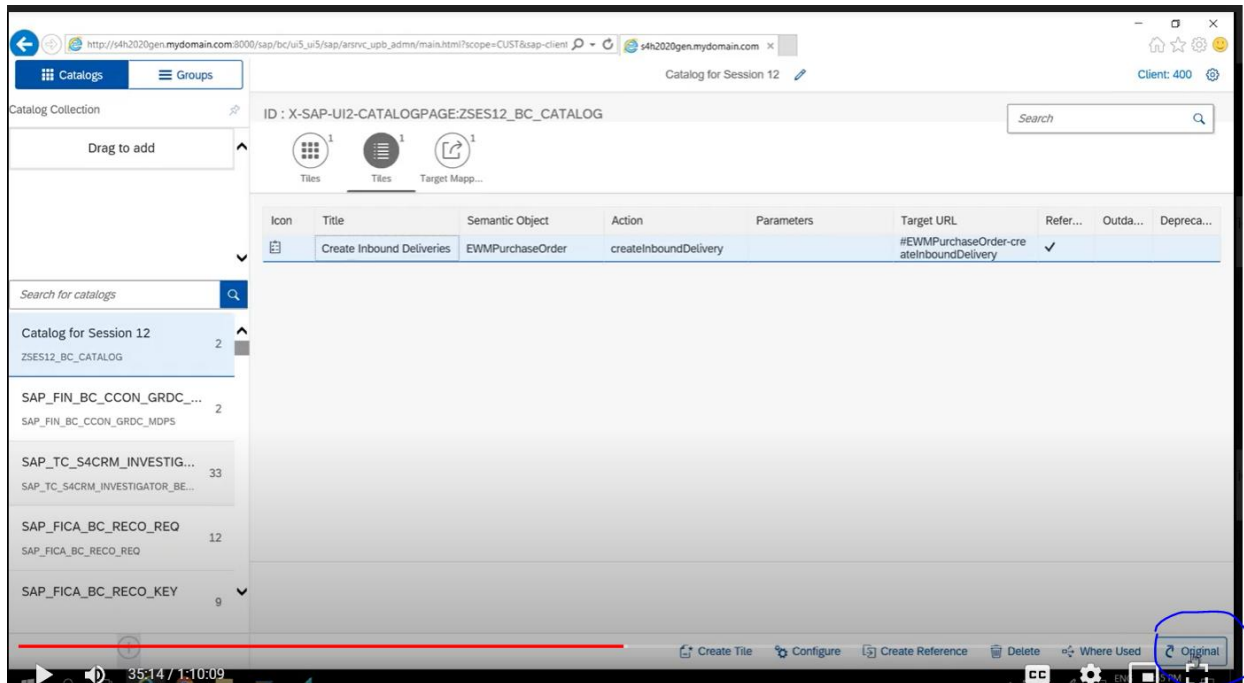
Note: App will only function when you have both tiles & target map ,if one of them is missing,app will not work



Select our catalog in searchbar



Go to tiles-put original ,that will take you to source



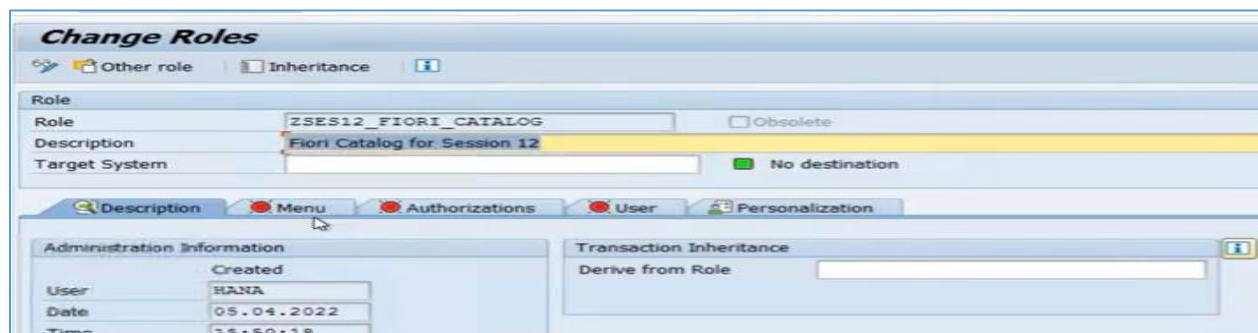
B: Taking Reference from business catalog of App id MM03 ,same like above catalog

Break The reference from catalog

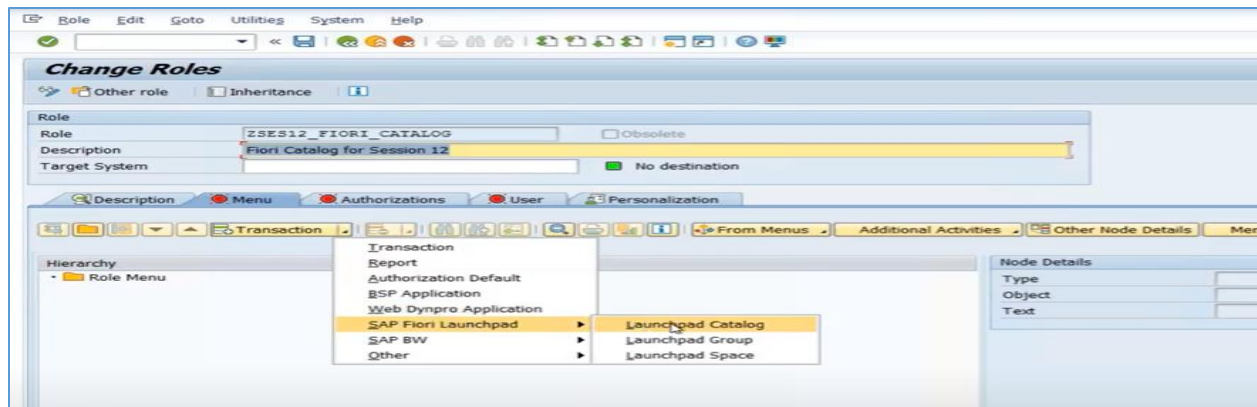
- Little bit change & save, it breaks reference, it become solid now

How we incorporate catalog to role

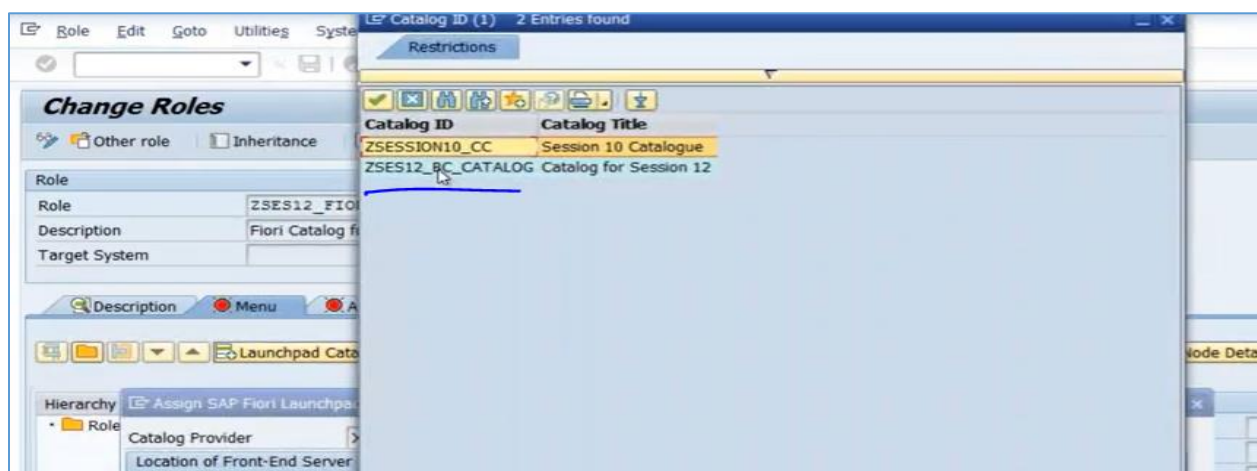
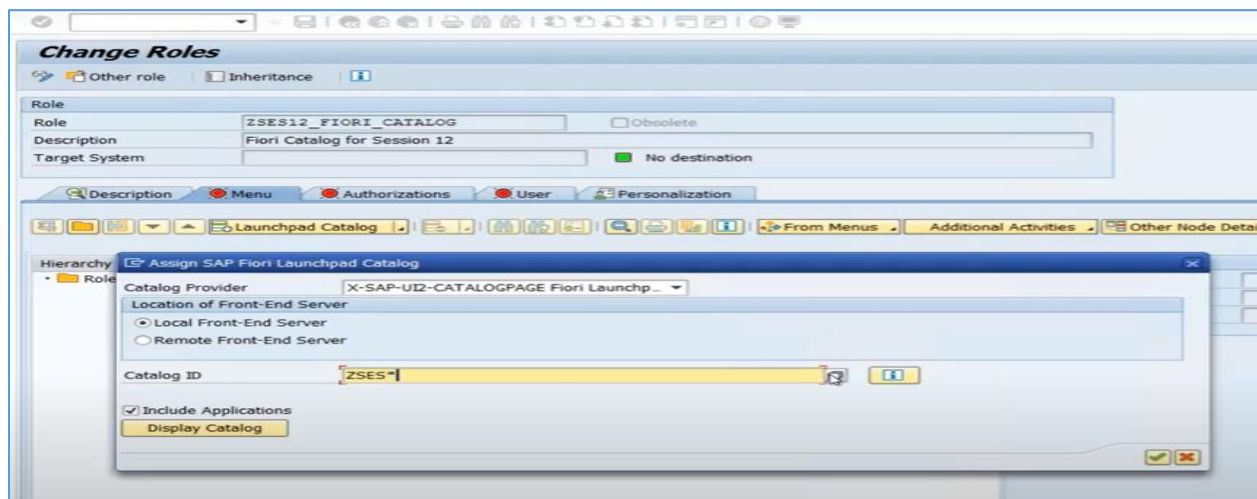
Code-PFCG-single role ,create role



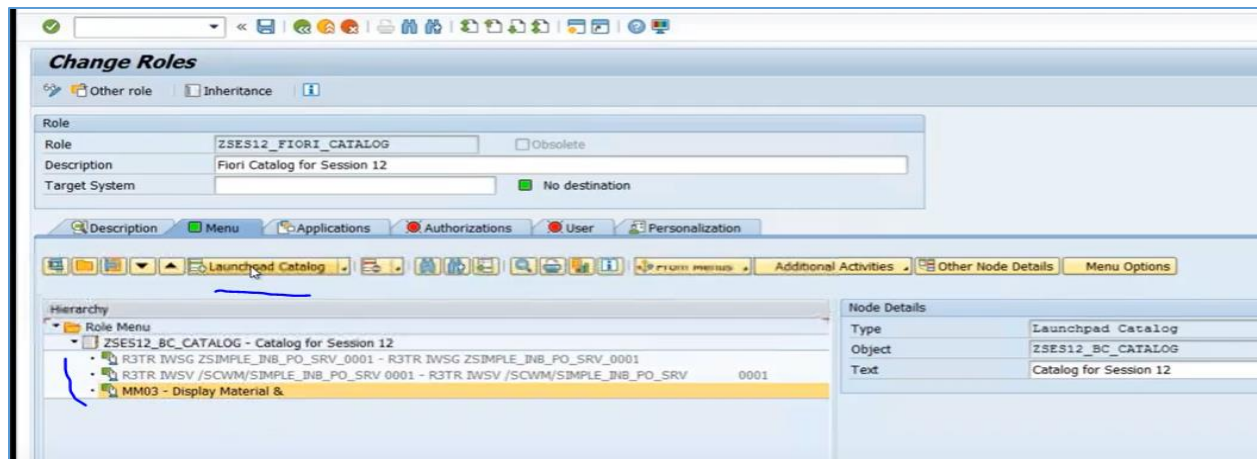
Whenever add catalog, add it from MENU –go to transaction-select SAP fiori lunchpad-Lunchpad catalog



Search created catalog in Launchpad



ALL the service of catalog is created



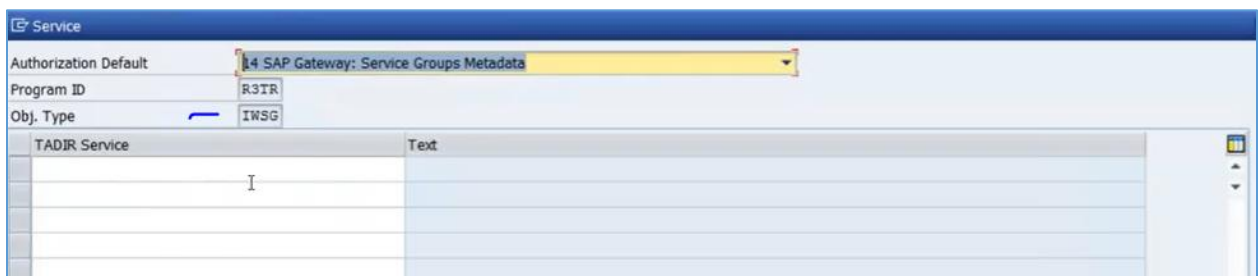
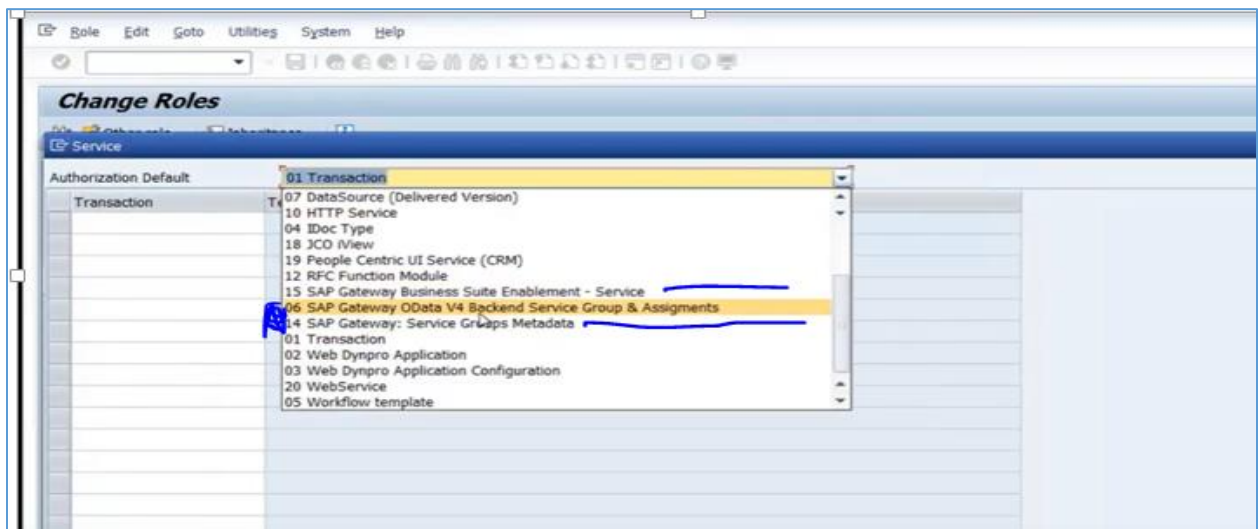
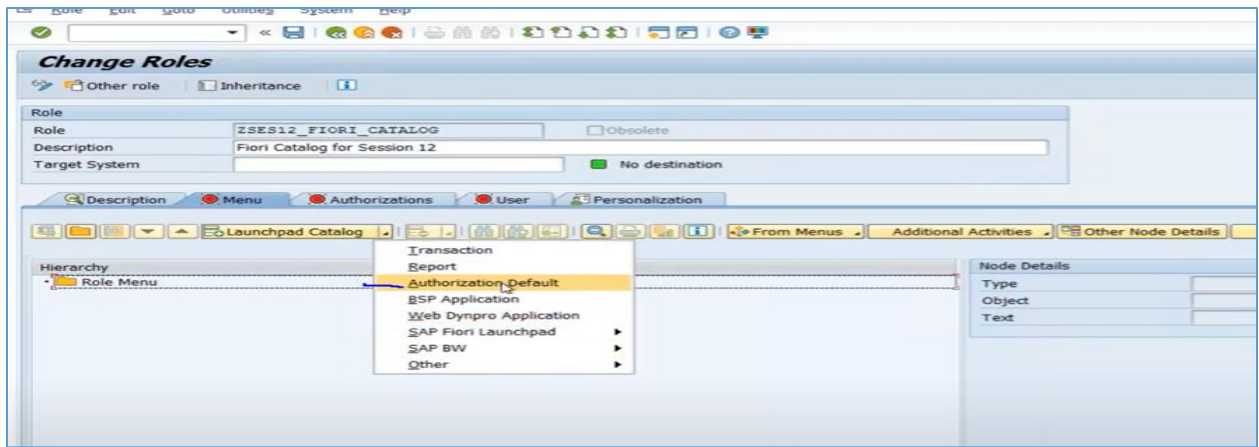
Technical design consideration

- Local front end server is embeded system,
- when u select Remote front end server:RFC destination & value have to be filled
- In frontend system, do not need any application(Untick application) above
- When you include service/application-Go to authorization tab-all the service bring in authorization object which r maintained ,when u add transaction code,all the object coming into role
- Adding transaction in PFCG menu ,system check what object is maintained for that particular transaction code in SU24,in SU24 what r the Object proposal as yes ,those role r pulled into role
- SU24 can be used for ODATA service similar to that transaction code

In frontend server or central hub mechanism: 2 object are required

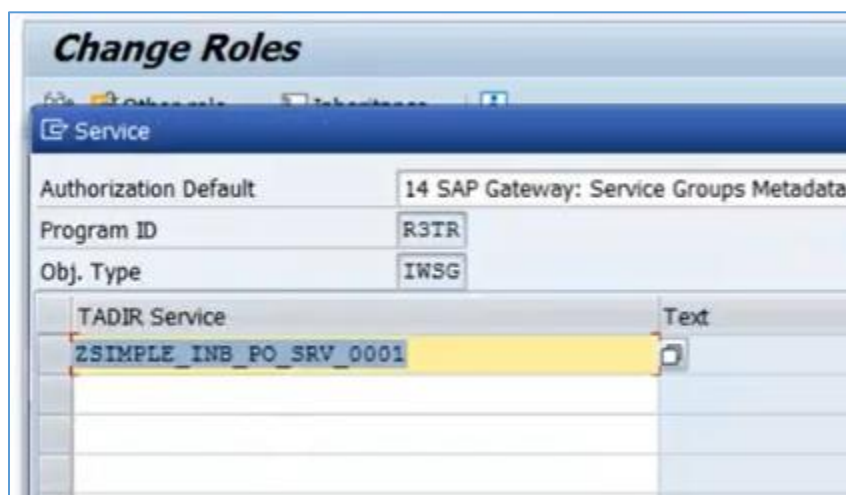
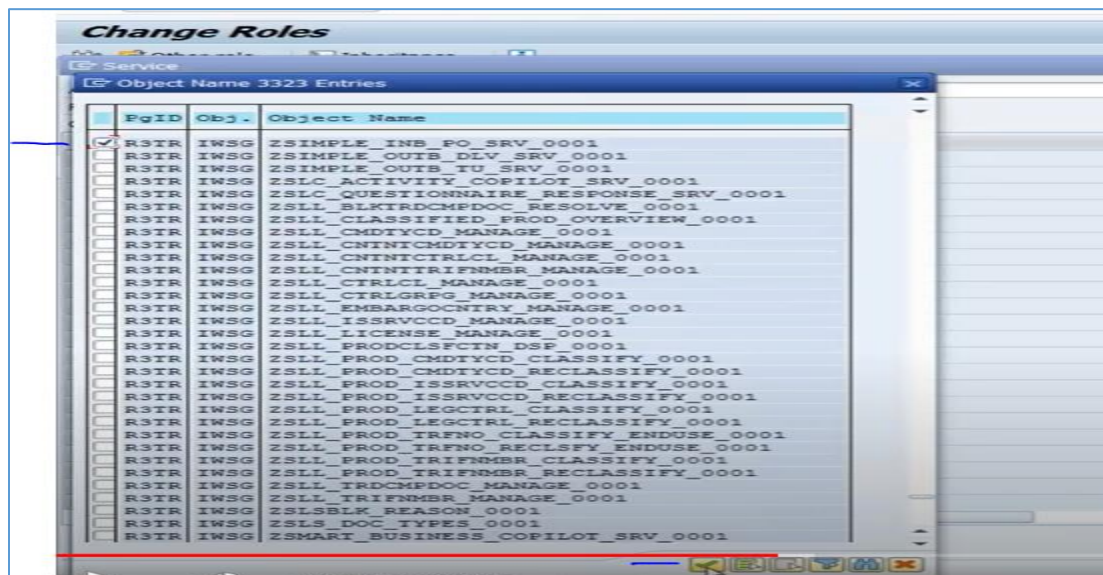
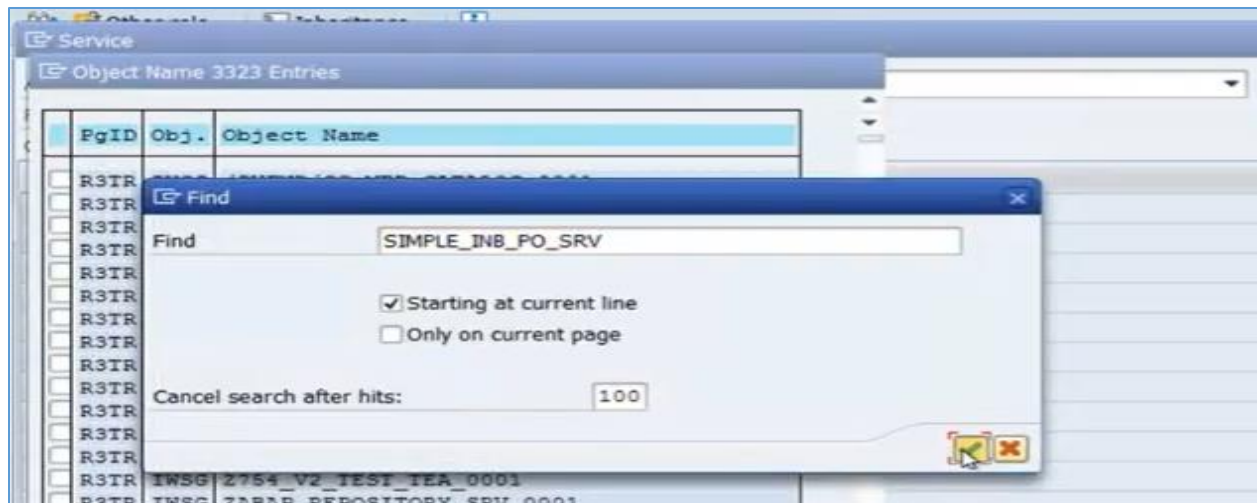
- S_SERVICE (It is the connecting point my actual service which will run in backend
- S_RFC (Connection between fronend & backend
- If basic team have not built of fiori foundation task,if u add catalog,service will not be added or

How to add service directly instaed of catalog –procedure mentioned below(Mannually add IWSG & IWSV in role)

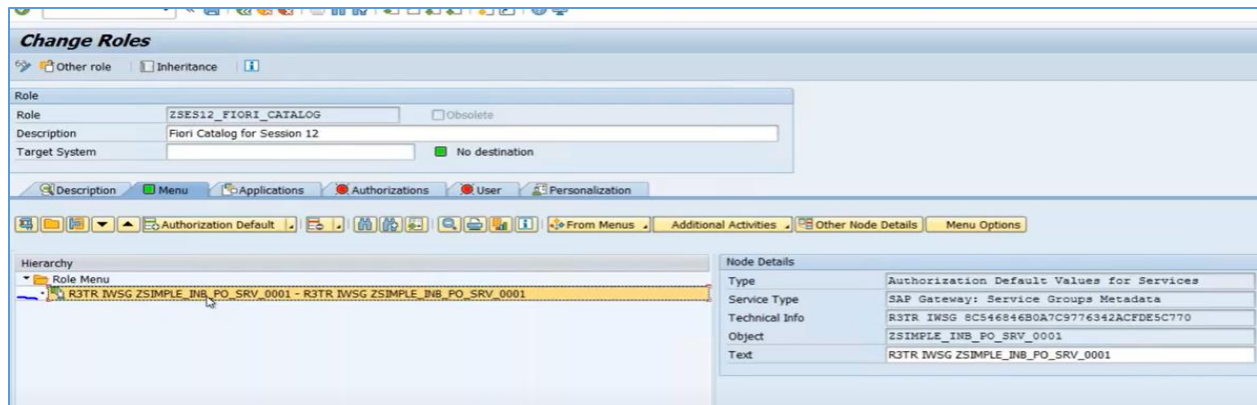


IWSG is the gateway service, this is needed for frontend activities

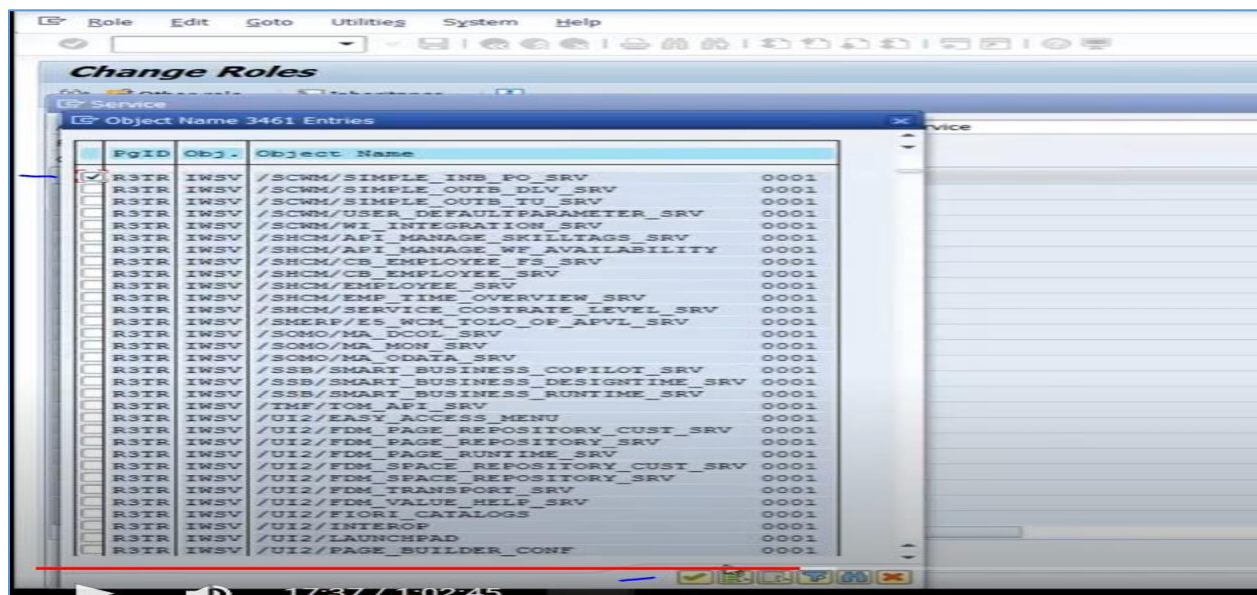
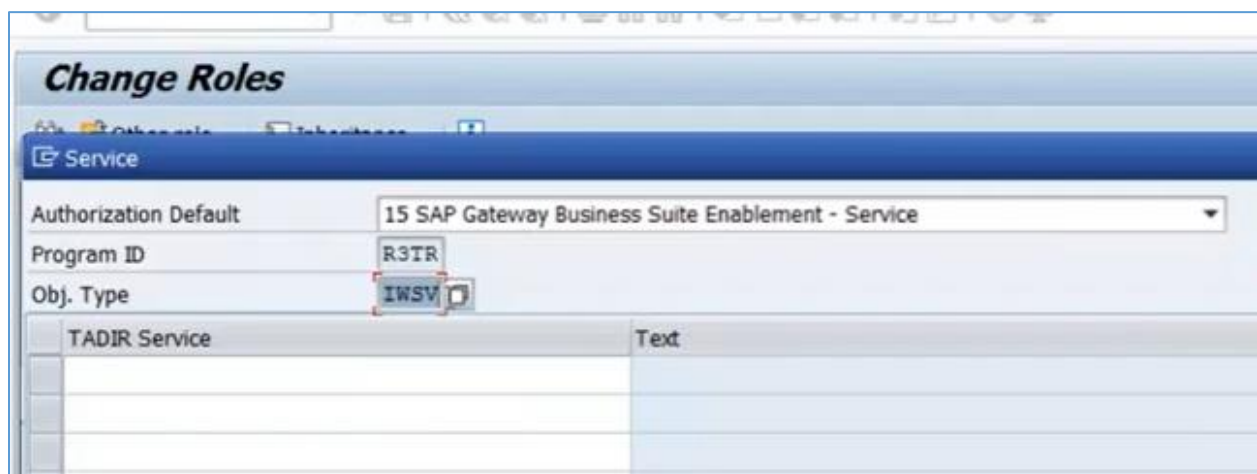
App ID	Odata Service	Reference Catalog	Sematic Object	Intent	Action	Custom Catalog ID	Custom Catalog Description
F1705	/SCWM/SIMPLE_INB_PO_SRV	SAP_TC_SCM_EWM_COMMON	EWMPurchaseOrder	createInboundDelivery		ZSES12_BC_CATALOG	Catalog for Session 12
MM03	/SCWM/USER_DEFAULTPARAMETER_SRV	SAP_CMD_BC_PR_MAINT	Material	display			



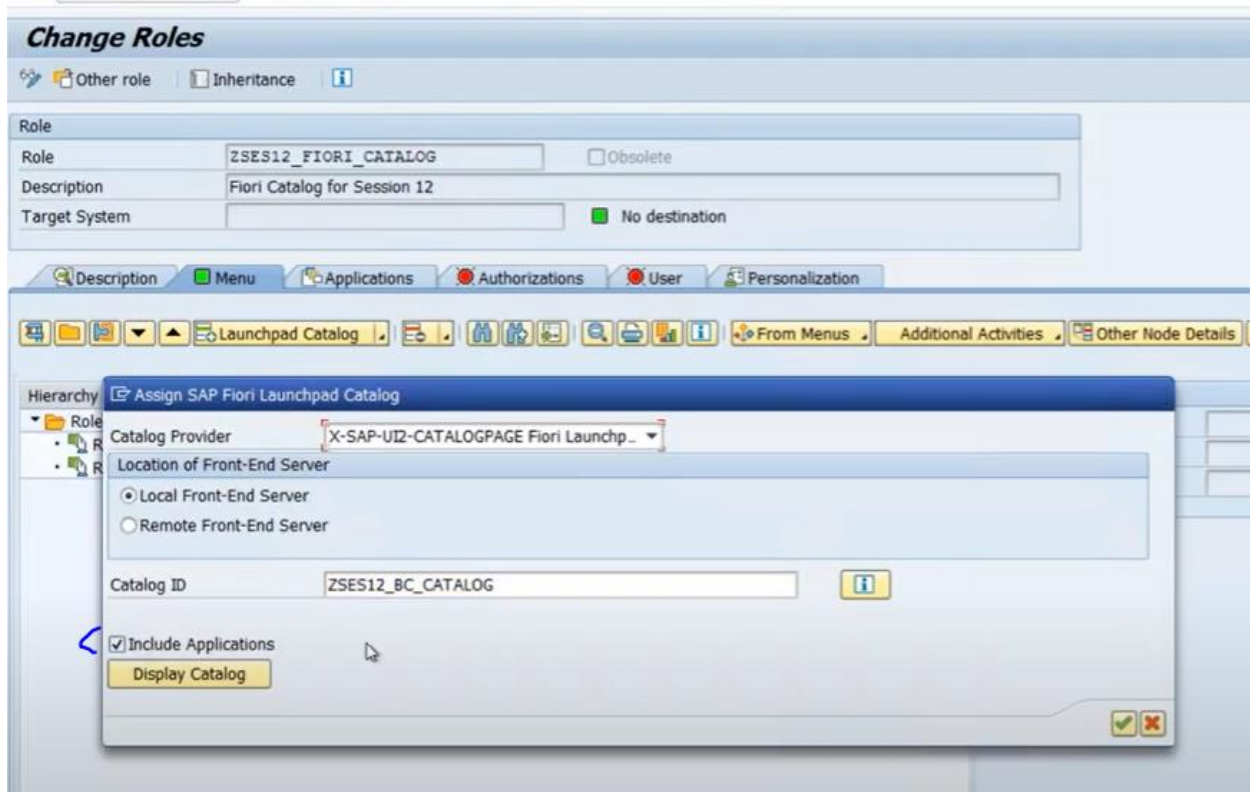
Without adding catalog, get role below



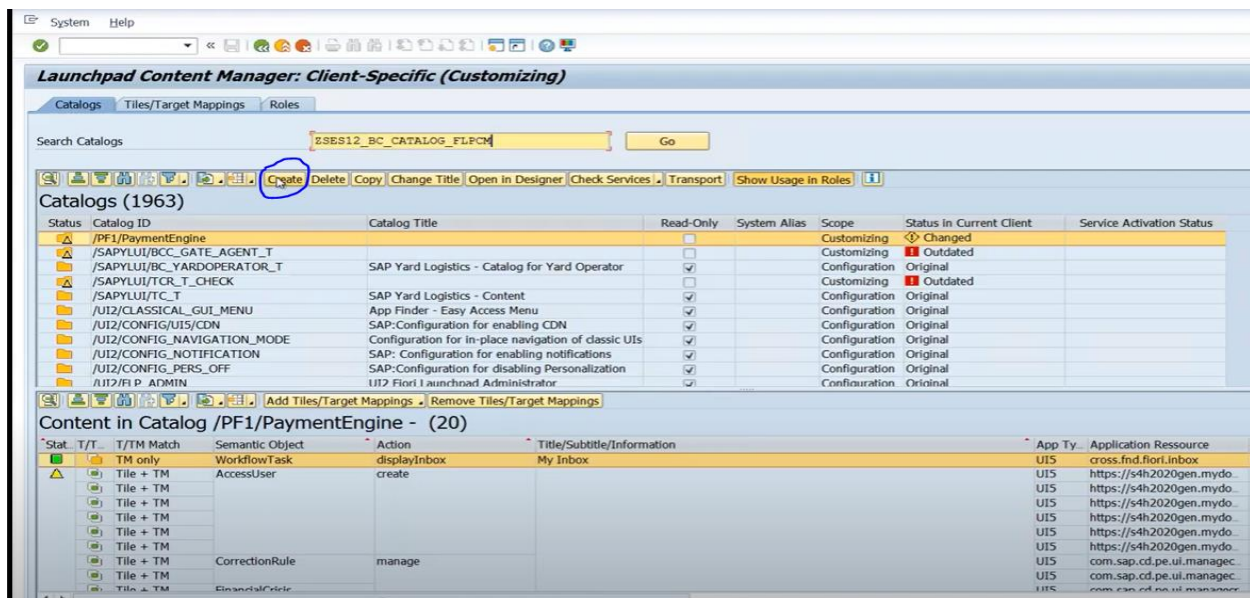
IWSV: Backend service

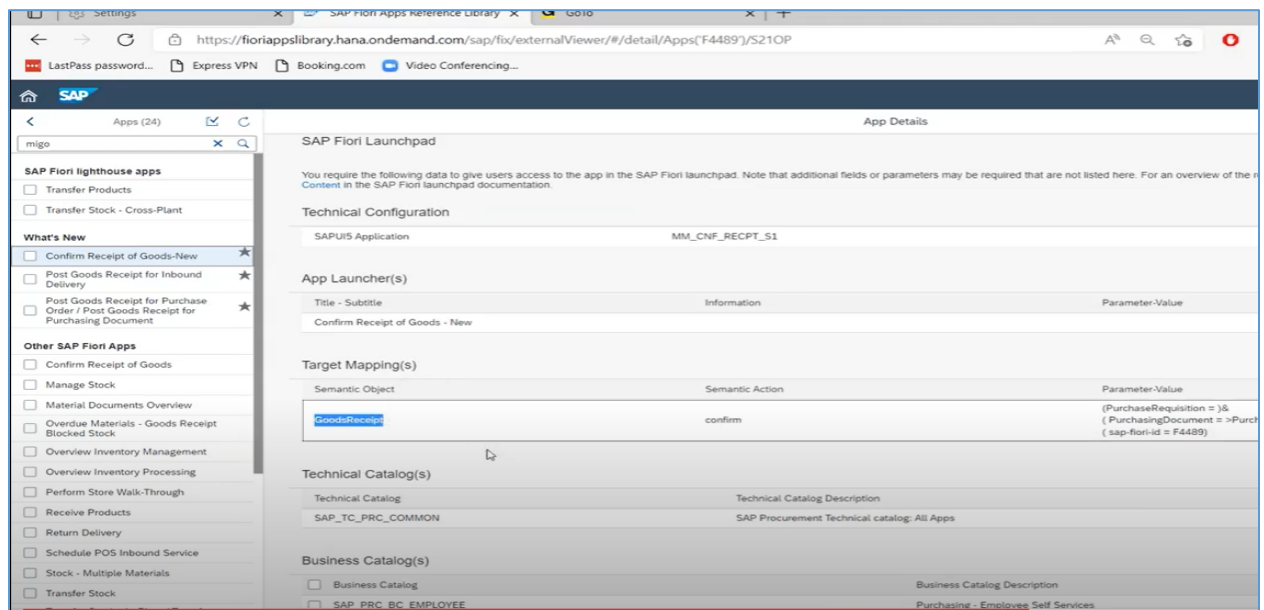
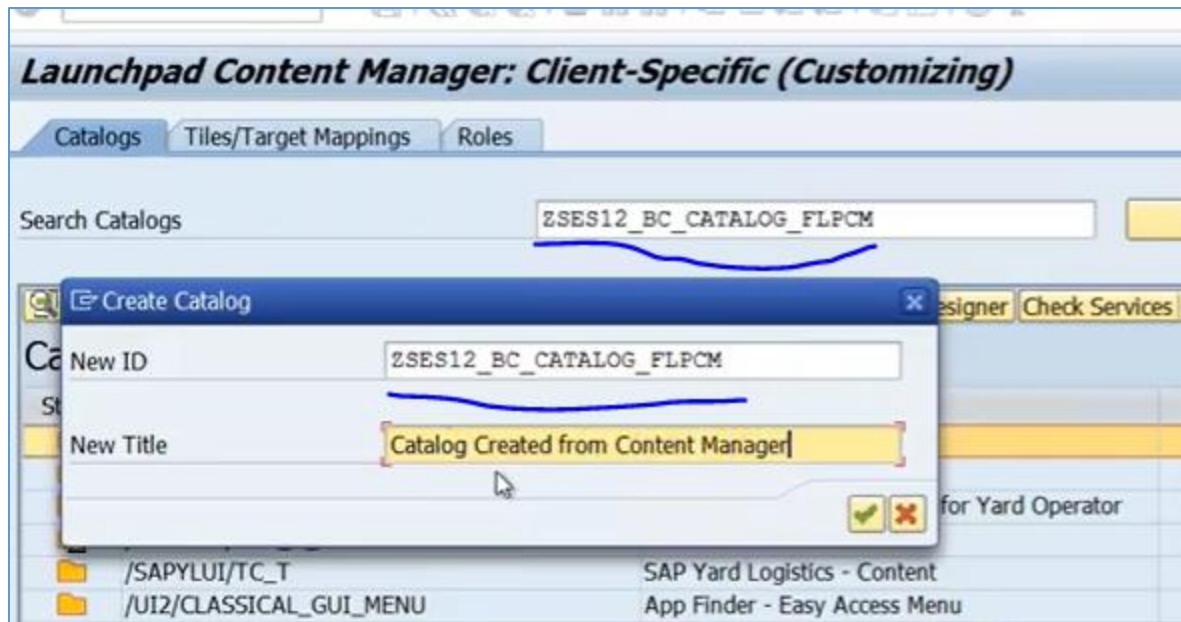


For catalog, tick include application



C: CUSTOM CATALOG CREATED BY CONTENT MANAGER





Go to Tile/targetmapping tab above & search semantic object, see below which catalog is part of under **catalog containing confirm receipt of goods line**

Launchpad Content Manager: Client-Specific (Customizing)

Catalogs Tiles/Target Mappings Roles

Search Tiles/Target Mappings

Tile / Target Mapping Combinations (35 of 15112)

Stat.	T/T	T/TM Match	Semantic Object	Action	Title/Subtitle/Information	App Ty.	Applicat
		Tile + TM	EWMExpectedGoodsReceipt	generate	Generate/Delete Exp. Goods Receipts	GUI	/SCWM/
		Tile + TM		maintain	Expected Goods Receipts	GUI	/SCWM/
		Tile + TM	EWMGoodsReceiptNotificati		Goods Receipt Notifications	GUI	/SCWM/
		Tile + TM	EWMInboundDelivery	postGoodsReceipt	Process Goods Receipt	GUI	/SCWM/
		Tile + TM	EWMWorkload	displayForGoodsReceipt	Display Workload - Goods Receipt	GUI	/SCWM/
		Tile + TM	GoodsReceipt	confirm	Confirm Receipt of Goods - New	UIS	ui.s2p.m
		Tile + TM		create	Confirm Receipt of Goods / Deprecated	UIS	ui.s2p.m
		Tile + TM		createWithoutReferenceInSt	Create Goods Receipt - without Reference	WDA	WDAC_1
		Tile + TM		createWithReferenceInStore	Create Goods Receipt - with Reference	WDA	WDAC_1
		TM only		displayForGoodsReceipt	Display Goods Receipt - Accounts Payable	UIS	fin.an.re

Catalogs containing Confirm Receipt of Goods - New (2)

Status	Catalog ID	Catalog Title	Read-Only	System Alias	Scope	Status in Current Client	Ref	Refer
	SAP_TC_PRC_COMMON	Procurement Technical catalog	<input checked="" type="checkbox"/>		Configuration	Original		Original
	SAP_PRC_BC_EMPLOYEE	Purchasing - Employee Self Services	<input checked="" type="checkbox"/>		Configuration	Original		Refer

Click add reference & catalog

System Help

Launchpad Content Manager: Client-Specific (Customizing)

Catalogs Tiles/Target Mappings Roles

Search Tiles/Target Mappings

Tile / Target Mapping Combinations (35 of 15112)

Stat.	T/T	T/TM Match	Semantic Object	Action	Title/Subtitle/Information	App Ty.	Application Resso
		Tile + TM	EWMExpectedGoodsReceipt	generate	Generate/Delete Exp. Goods Receipts	GUI	/SCWM/ERP_EGR
		Tile + TM		maintain	Expected Goods Receipts	GUI	/SCWM/EGR
		Tile + TM	EWMGoodsReceiptNotificati		Goods Receipt Notifications	GUI	/SCWM/GRN
		Tile + TM	EWMInboundDelivery	postGoodsReceipt	Process Goods Receipt	GUI	/SCWM/GR
		Tile + TM	EWMWorkload	displayForGoodsReceipt	Display Workload - Goods Receipt	GUI	/SCWM/GRWORK
		Tile + TM	GoodsReceipt	confirm	Confirm Receipt of Goods - New	UIS	ui.s2p.mmm.confr
		Tile + TM		create	Confirm Receipt of Goods / Deprecated	UIS	ui.s2p.mmm.confr
		Tile + TM		createWithoutReferenceInSt	Create Goods Receipt - without Reference	WDA	WDAC_W5GM_Q
		Tile + TM		createWithReferenceInStore	Create Goods Receipt - with Reference	WDA	WDAC_W5GM_Q
		TM only		displayForGoodsReceipt	Display Goods Receipt - Accounts Payable	UIS	fin.an.pmm.confr

Catalogs containing Confirm Receipt of Goods - New (2)

Status	Catalog ID	Catalog Title	Read-Only	System Alias	Scope	Status in Current Client	Ref	Reference Data
	SAP_TC_PRC_COMMON	Procurement Technical catalog	<input checked="" type="checkbox"/>		Configuration	Original		Original (Tile +
	SAP_PRC_BC_EMPLOYEE	Purchasing - Employee Self Services	<input checked="" type="checkbox"/>		Configuration	Original		Reference (Tile

Search catalog

Add Tiles/Target Mappings as References

Search Catalogs:

Catalogs (2 of 1964)

Status	Catalog ID	Catalog Title	Read-Only	System Alias	Scope	Status in Current Client
📁	/PF1/PaymentEngine		<input type="checkbox"/>		Customizing	Changed
📁	/SAPYUI/BC_C_GATE_AGENT_T		<input type="checkbox"/>		Customizing	Outdated
📁	/SAPYUI/BC_YARDOPERATOR_T	SAP Yard Logistics - Catalog for Yard Operator	<input checked="" type="checkbox"/>		Configuration	Original
📁	/SAPYUI/TCR_T_CHECK		<input type="checkbox"/>		Customizing	Outdated
📁	/SAPYUI/TC_T	SAP Yard Logistics - Content	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/CLASSICAL_GUI_MENU	App Finder - Easy Access Menu	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/CONFIG/UI5/CDN	SAP:Configuration for enabling CDN	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/CONFIG_NAVIGATION_MODE	Configuration for in-place navigation of classic UIs	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/CONFIG_NOTIFICATION	SAP: Configuration for enabling notifications	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/CONFIG_PERS_OFF	SAP:Configuration for disabling Personalization	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/FLP_ADMIN	UI2 Fiori Launchpad Administrator	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/SAPNewsTile	SAP News Tile	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/SAP_KPIFRWS_TC_S	SAP: KPIs (local)	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/SAP_KPIMOD_TC_S	SAP: KPI Modeler(local)	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UI2/SAP_LUMIRA_TC	SAP Lumira	<input checked="" type="checkbox"/>		Configuration	Original
📁	/UIF/SAP_RT_PLUGIN	SAP Runtime Authoring Plugin	<input checked="" type="checkbox"/>		Configuration	Original
📁	01	cashmanager	<input type="checkbox"/>		Customizing	Original
📁	010	Cash Operations	<input type="checkbox"/>		Customizing	Original

Add Tiles/Target Mappings as References

Search Catalogs:

Catalogs (2 of 1964)

Status	Catalog ID	Catalog Title	Read-Only	System
📁	ZSES12_BC_CATALOG	Catalog for Session 12	<input type="checkbox"/>	
📁	ZSES12_BC_CATALOG_FLCM	Catalog Created from Content Manager	<input type="checkbox"/>	

By clicking , it automatically create reference

Catalogs Tiles/Target Mappings Roles

Search Tiles/Target Mappings:

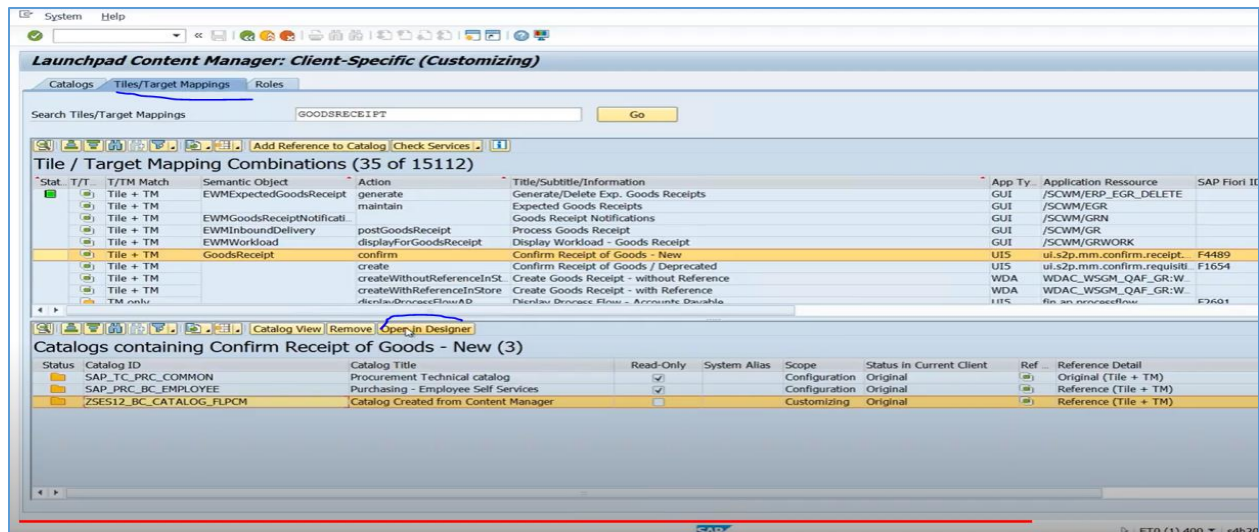
Title / Target Mapping Combinations (35 of 15112)

Stat.	T/T	T/T Match	Semantic Object	Action	Title/Subtitle/Information	App Ty.	Application Resource	SAP Fiori ID	Application Component
📁	Tile + TM		EWMEExpectedGoodsReceipt	generate	Generate/Delete Exp. Goods Receipts	GUI	/SCWM/ERP_EGR_DELETE		SCM-EWM-IF-ERP
📁	Tile + TM			maintain	Expected Goods Receipts	GUI	/SCWM/EGR		SCM-EWM-DLP
📁	Tile + TM		EWMGoodsReceiptNotificati.		Goods Receipt Notifications	GUI	/SCWM/GRN		SCM-EWM-DLP-UI
📁	Tile + TM		EWMInboundDelivery	postGoodsReceipt	Process Goods Receipt	GUI	/SCWM/GR		SCM-EWM-DLP-UI
📁	Tile + TM		EWMWorkload	displayForGoodsReceipt	Display Workload - Goods Receipt	GUI	/SCWM/GRWORK		SCM-EWM-DLP-UI
📁	Tile + TM		GoodsReceipt	confirm	Confirm Receipt of Goods - New	UIS	ui.s2p.mm.confirm.receipt..	F4489	MM-FIO-PUR-REQ
📁	Tile + TM			create	Confirm Receipt of Goods / Deprecated	UIS	ui.s2p.mm.confirm.requiti.	F1654	MM-FIO-PUR-REQ
📁	Tile + TM			createWithoutReferenceInSt.	Create Goods Receipt - without Reference	WDA	WDAC_W5GM_QAF_GR:W		LO-RFM-STO-MIM
📁	Tile + TM			createWithReferenceInStore	Create Goods Receipt - with Reference	WDA	WDAC_W5GM_QAF_GR:W		LO-RFM-STO-MIM
📁	TM only		Arcadia-DinraceFlowAD		Nicolas Dinrace Flow - Arcadia Daushla	IFS	fin.an.ninraceflow	F3601	FI-FIO-AD

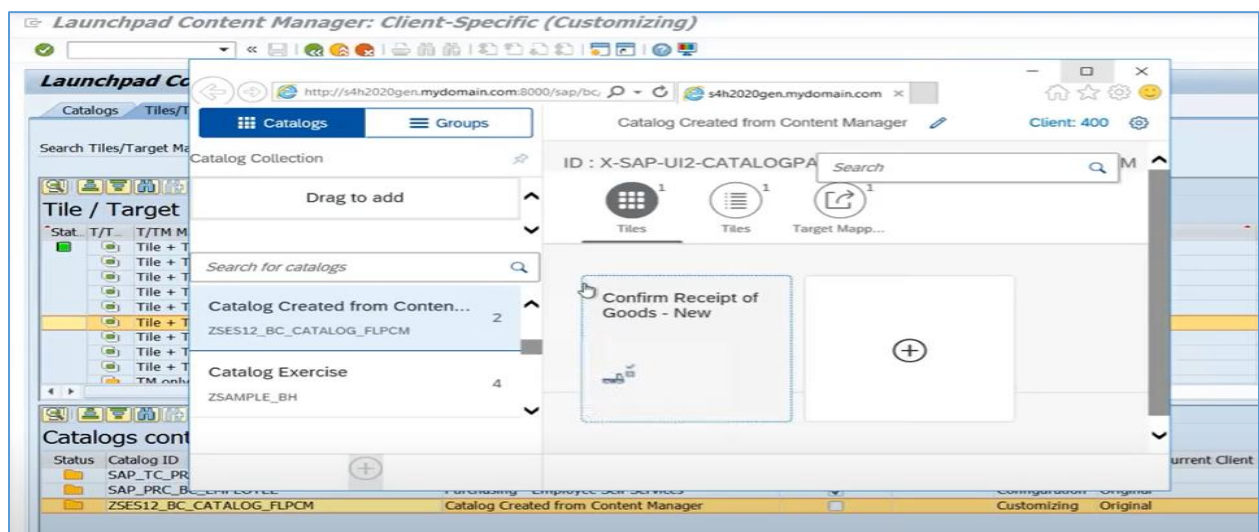
Catalogs containing Confirm Receipt of Goods - New (3)

Status	Catalog ID	Catalog Title	Read-Only	System Alias	Scope	Status in Current Client	Ref.	Reference Detail	Service Ac
📁	SAP_TC_PRC_COMMON	Procurement Technical catalog	<input checked="" type="checkbox"/>		Configuration	Original	📁	Original (Tile + TM)	
📁	SAP_PRC_BC_EMPLOYEE	Purchasing - Employee Self Services	<input checked="" type="checkbox"/>		Configuration	Original	📁	Reference (Tile + TM)	
📁	ZSES12_BC_CATALOG_FLCM	Catalog Created from Content Manager	<input type="checkbox"/>		Customizing	Original	📁	Reference (Tile + TM)	

For crosscheck-go to target mapping & see how does look in my designer page



It will show FLPD_CUST Transaction



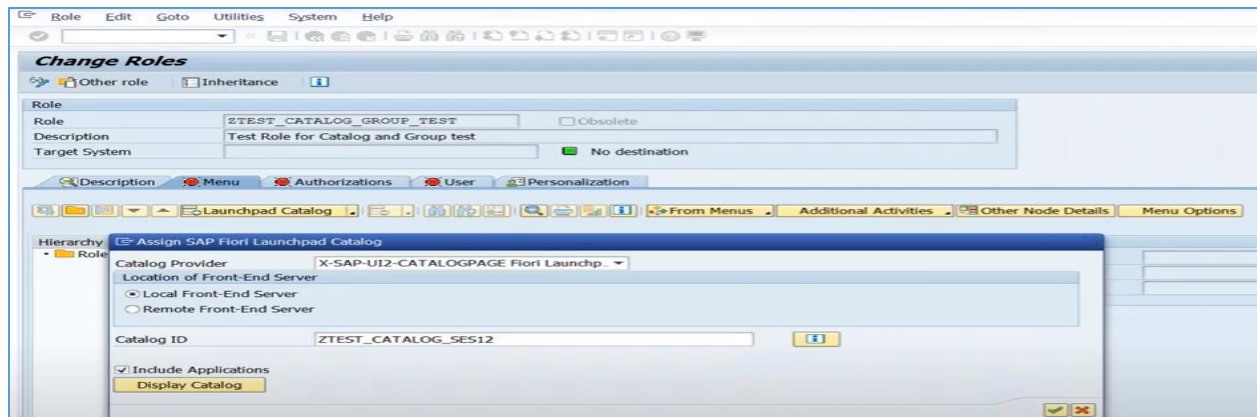
CATALOG GROUP

Groups are not access provisioning, it's a display content in a most structured way

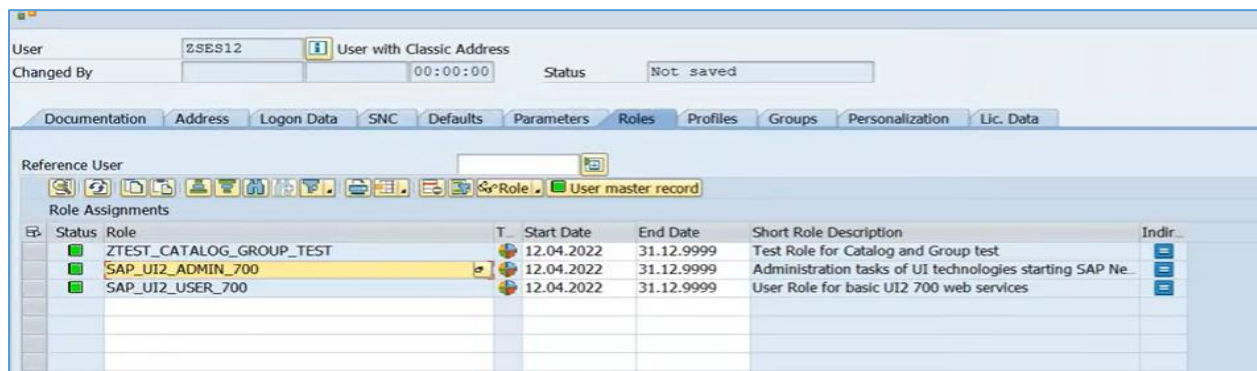
Creation of group:/n/ui2/flpd_cust

Then In content manager, create role with addition of catalog & Create user

Catalog(go to PFCG-Menu bar-Launchpad catalog-select catalog,which we have created



Create user & give that role ,which now created and along with basic role



Log In fiori launchpad(/n/ui2/flp)

We can not see the app unless & until apps are included in the group ,still he can access ,there 3 ways of doing this,Launch pad is empty,

These role are mandatory for showing Launchpad for IWSG & IWSV

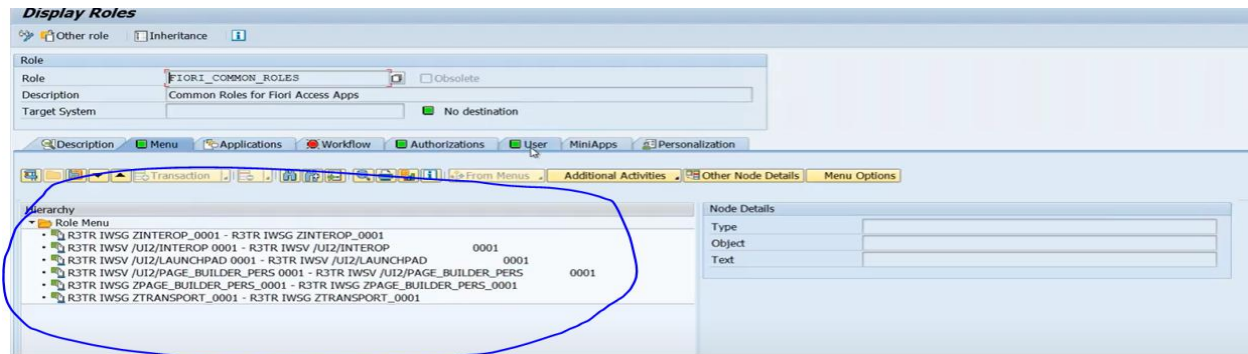
ZINTEROP_0001

PAGE_BUILDER_PERS

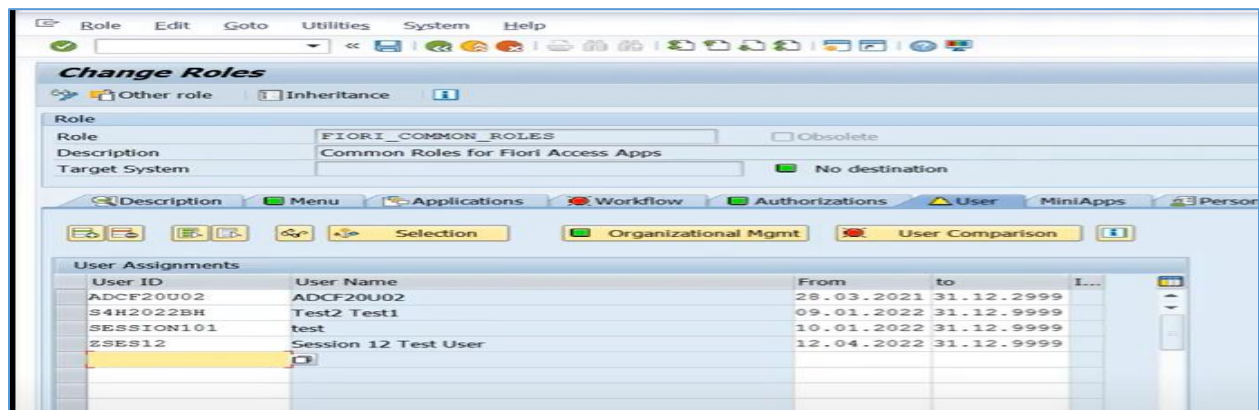
TRANSPORT_0001

LAUNCHPAD

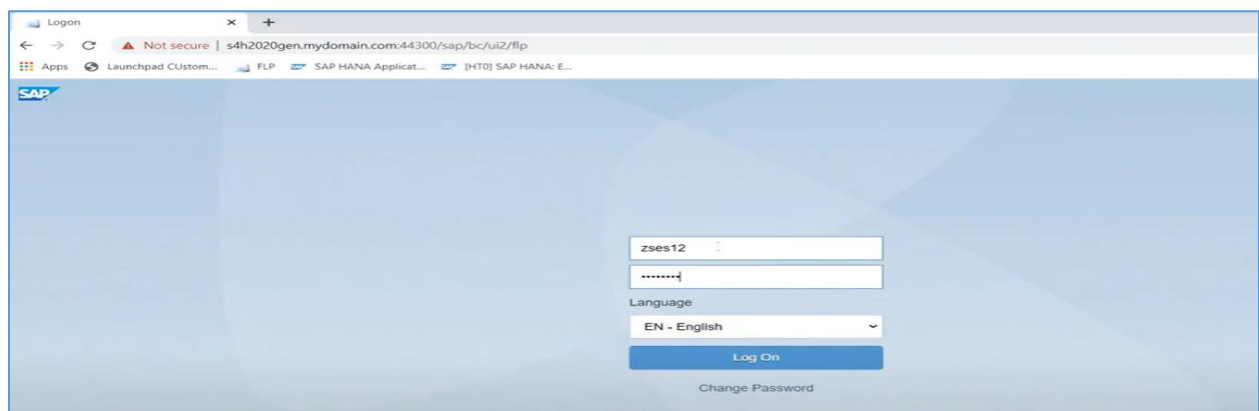
Go to menu tab-Transaction-authorization default & select above role for IWSG & IWSV



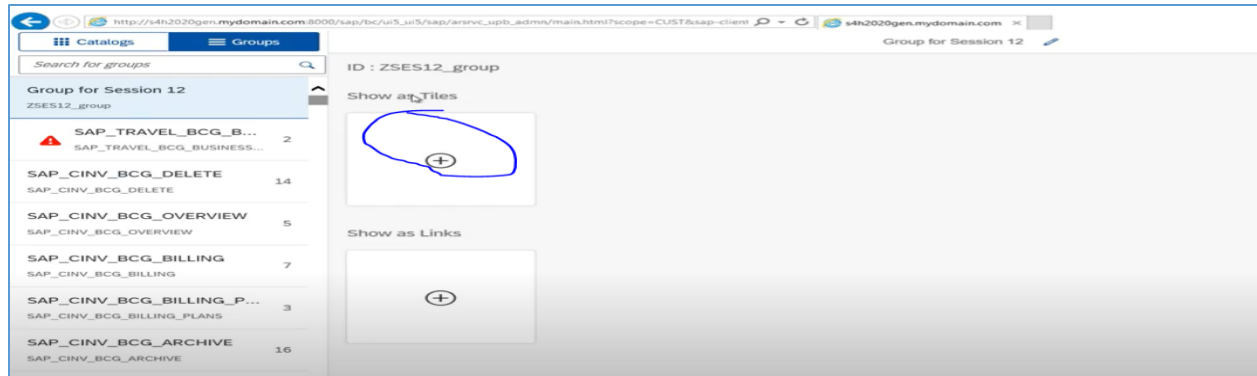
Go to User tab- add that user ,which we created above



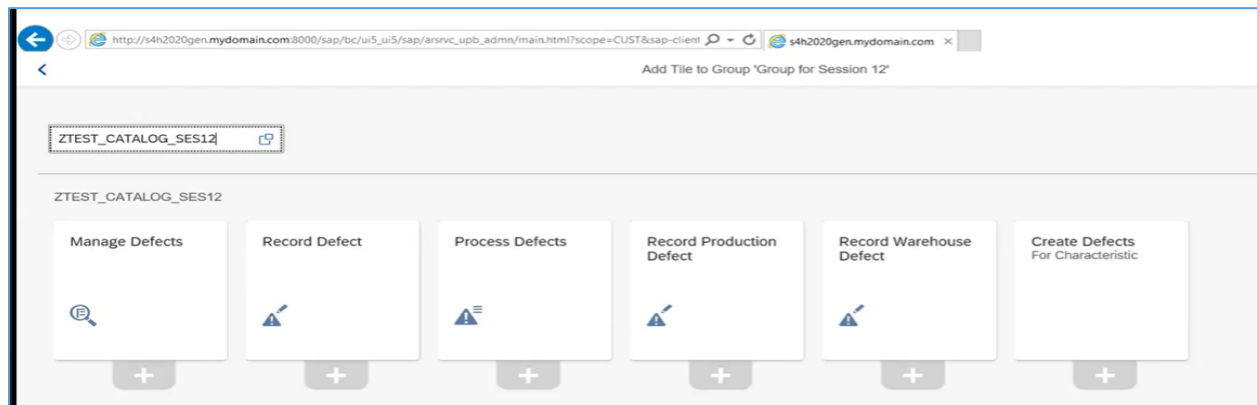
Still ,tiles are not visible in Launchpad,3 way could find as catalog view,go to fiori launch pad



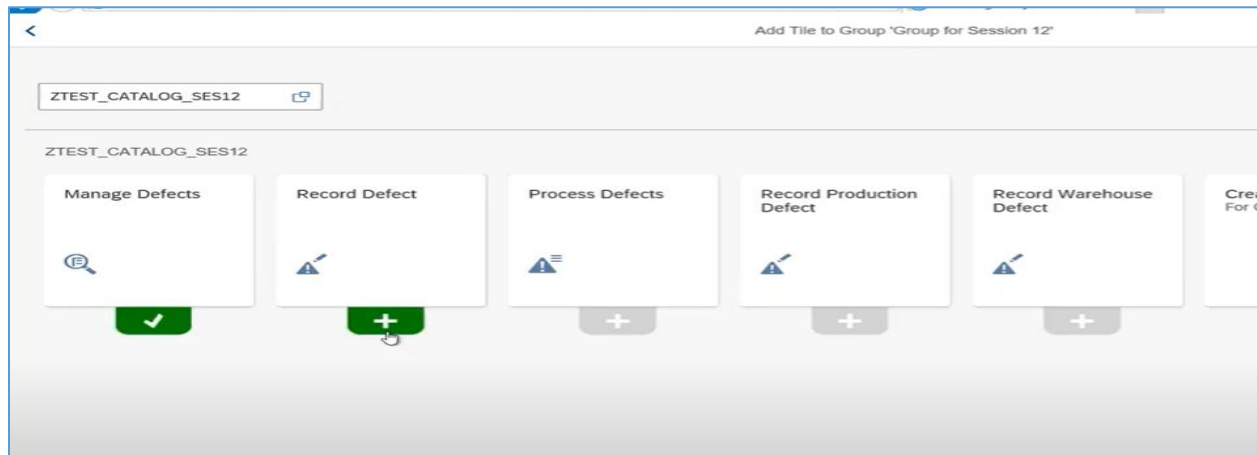
Create Group in fiori launchpad customized



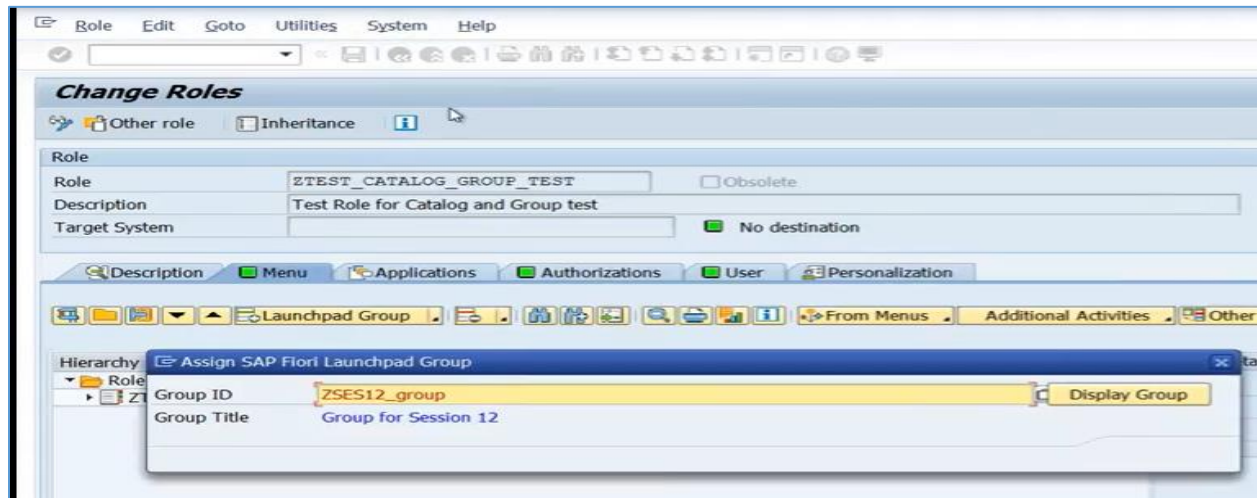
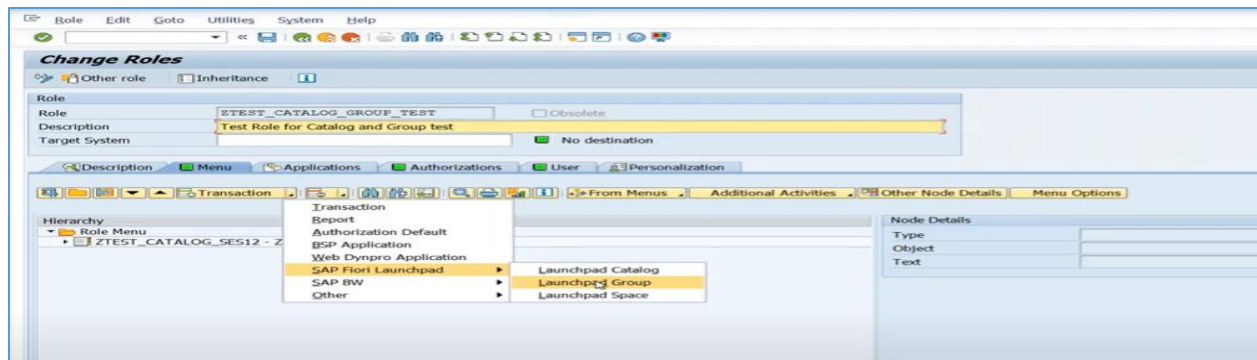
Search for my catalog



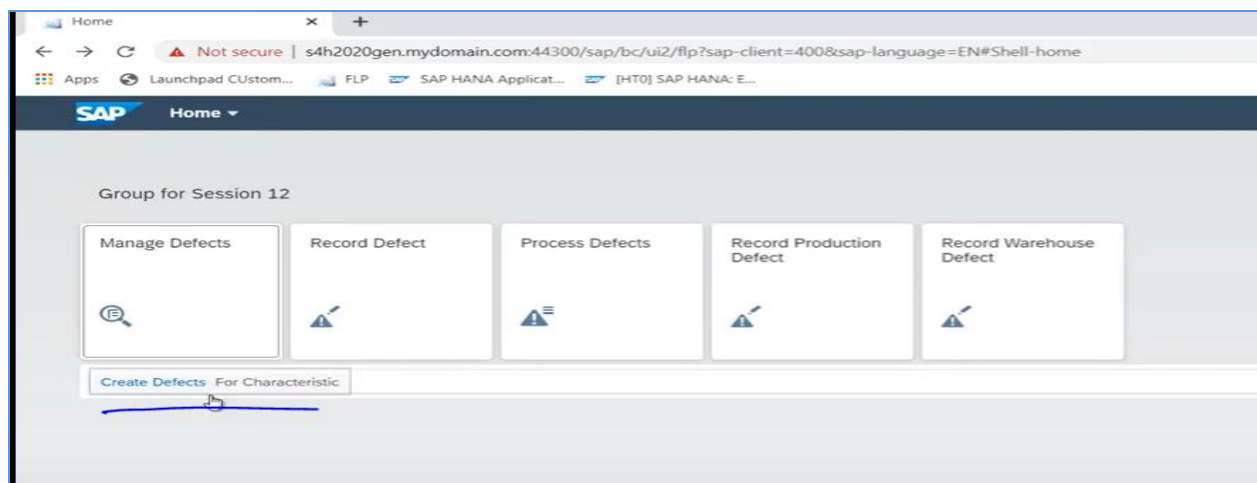
Which ever app you want to add,click +



Go to PFCG-Add the group

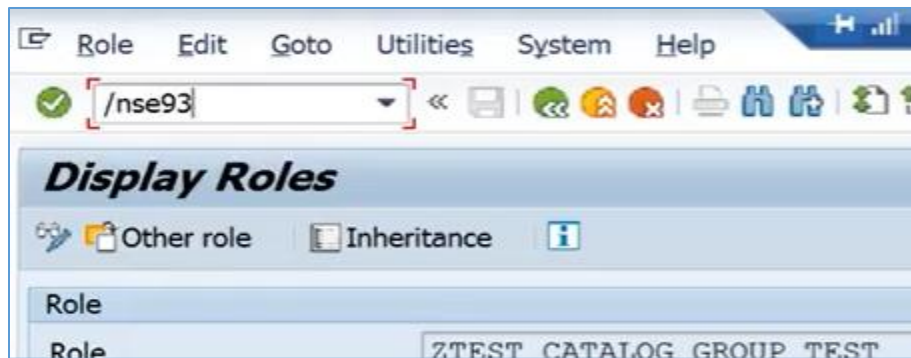


Go to Launchpad & see it

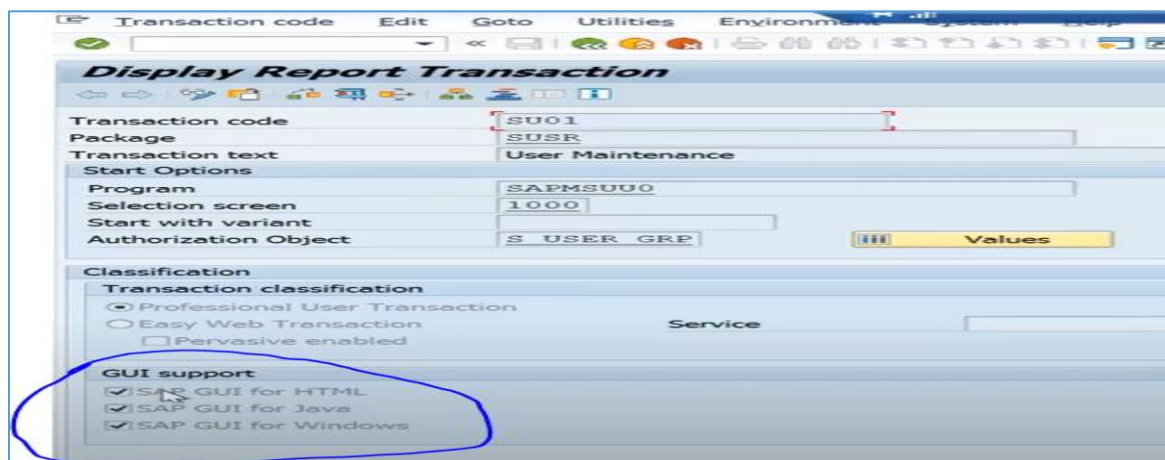
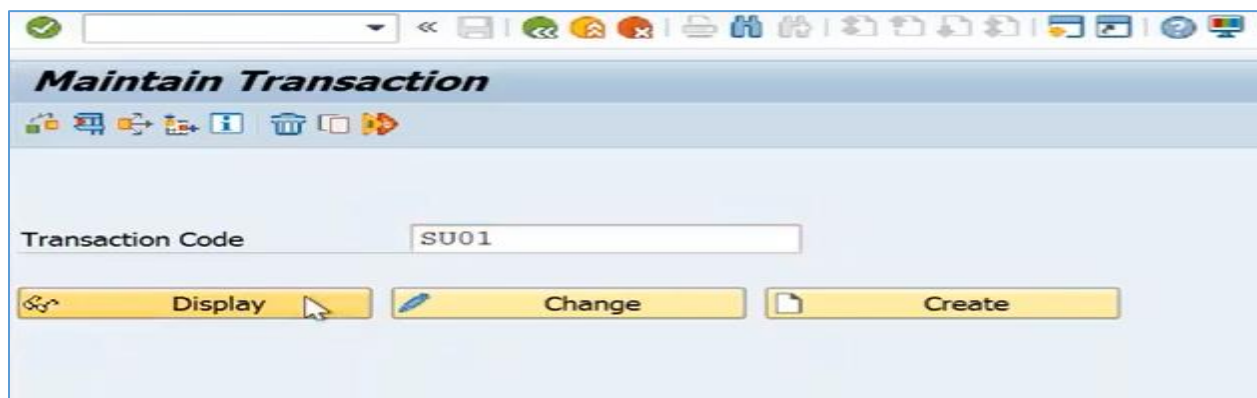


How to create app for transaction code (T code, ex SU01 into APP) INV navigation

Before upgrade to app ,need to check through SE93

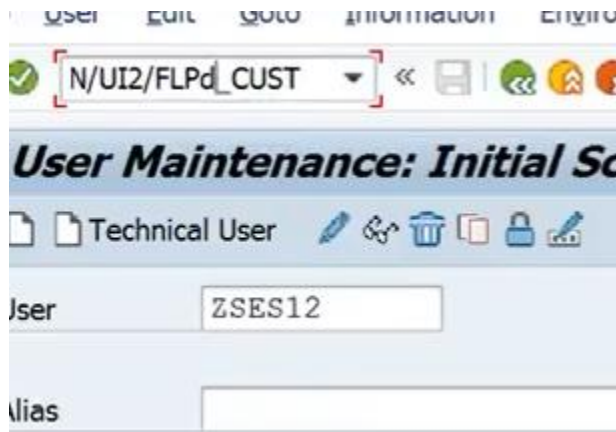


SU01 is compatible for HTML or not

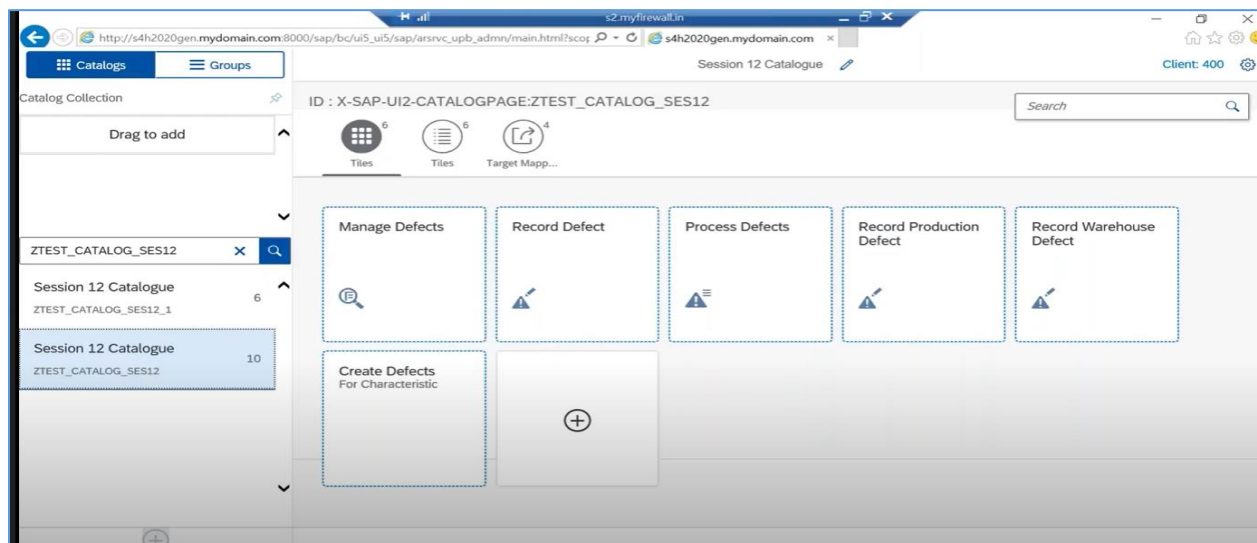


This tick mark says that transaction can perform without any trouble on webpage

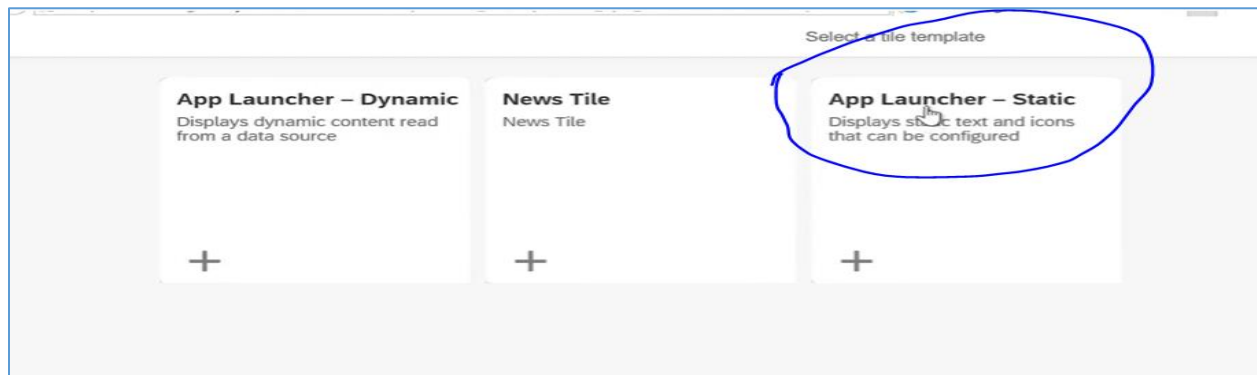
Goto lunchpad designer



Paste catalog in launchpad desiner



Click on +



Configure: 'App Launcher - Static' Instance ID: 7UIUXMNNP6G6DP7W

General

Title:

Subtitle:

Keywords:

Icon:

Information:

Navigation

Use semantic object navigation: ☒

Semantic Object:

Action:

Parameters:

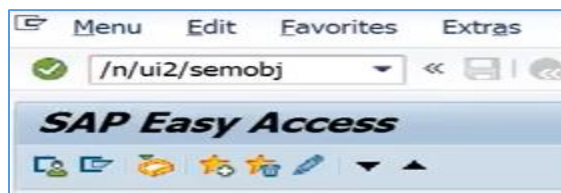
Target URL:

Tile Actions

<input type="checkbox"/>	Menu Item	Target Ty...	Navigation Target	Action	Icon
<input type="checkbox"/>		URL	<input type="text"/>		

Add Remove

Create semantic object



Fill it in tiles below

Configure: 'App Launcher - Static' Instance ID: 7UIUXMNNP6G6DP7WZ7RVG0V75

General

Title:

Subtitle:

Keywords:

Icon:

Information:

Navigation

Use semantic object navigation: ☒

Semantic Object:

Action:

Parameters:

Target URL:

Tile Actions

<input type="checkbox"/>	Menu Item	Target Ty...	Navigation Target	Action	Icon
<input type="checkbox"/>		URL	<input type="text"/>		

Add Remove Save Cancel

Session 12 Catalogue

ID: X-SAP-UI2-CATALOGPAGE:ZTEST_CATALOG_SES12

Search

Drag to add

Files Files Target Mapping

Manage Defects

Record Defect

Process Defects

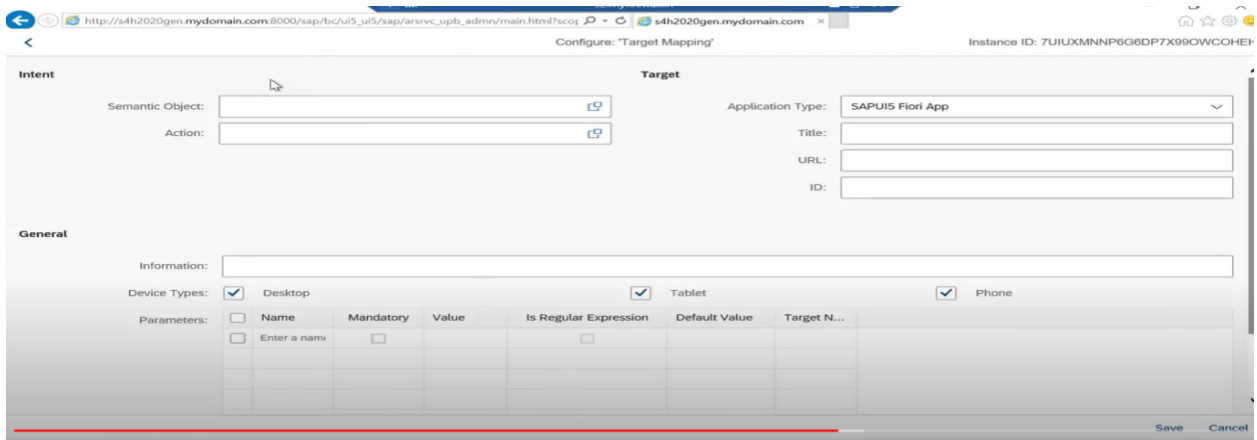
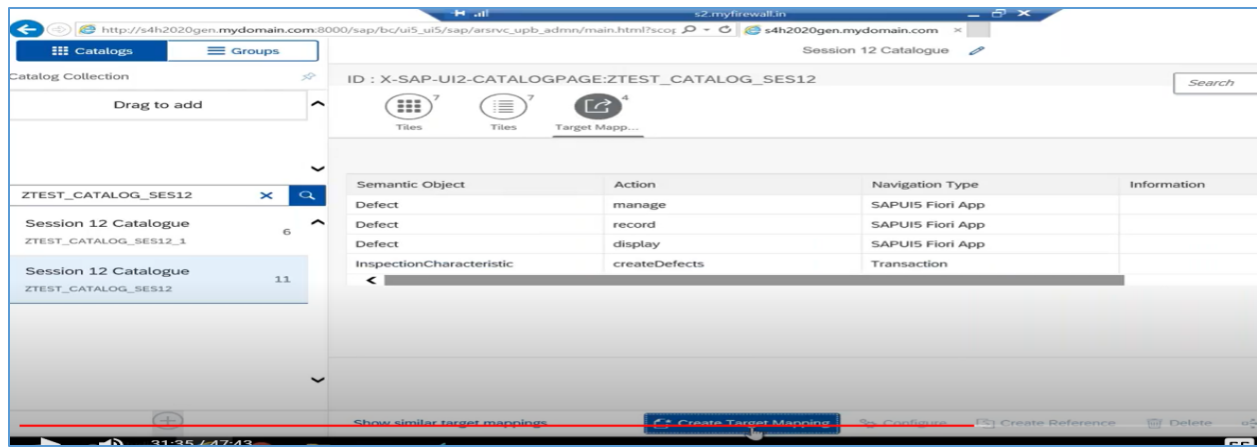
Record Production Defect

Record Wa Defect

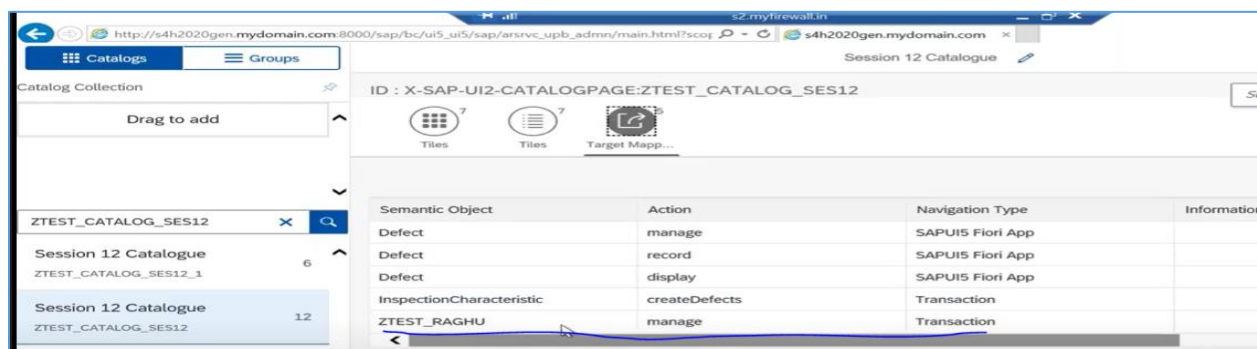
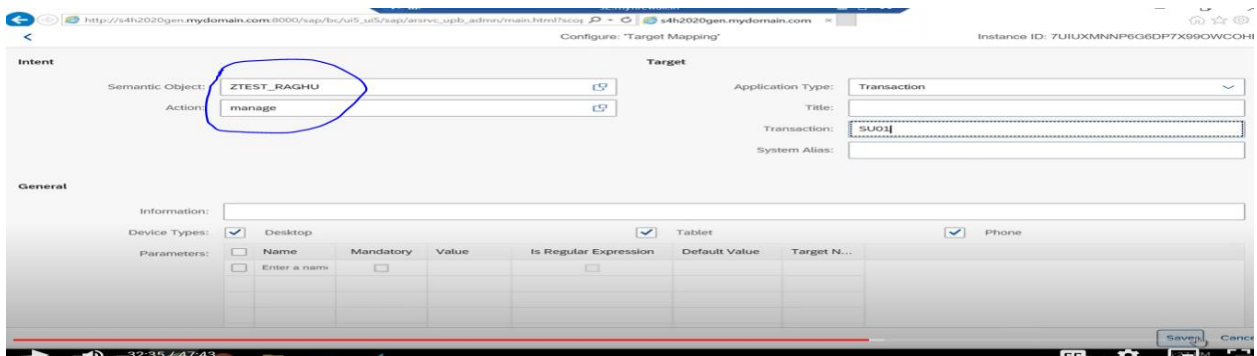
Create Defects For Characteristic

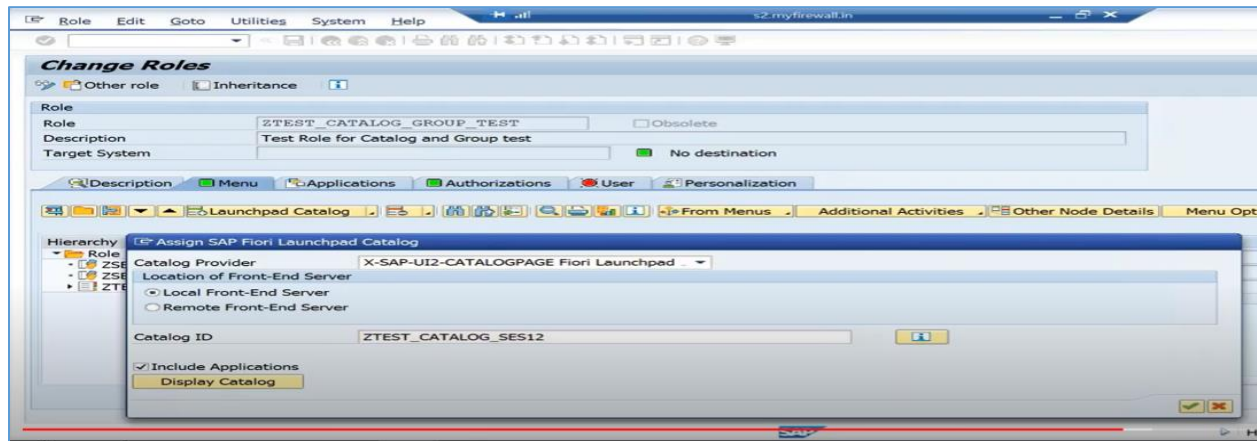
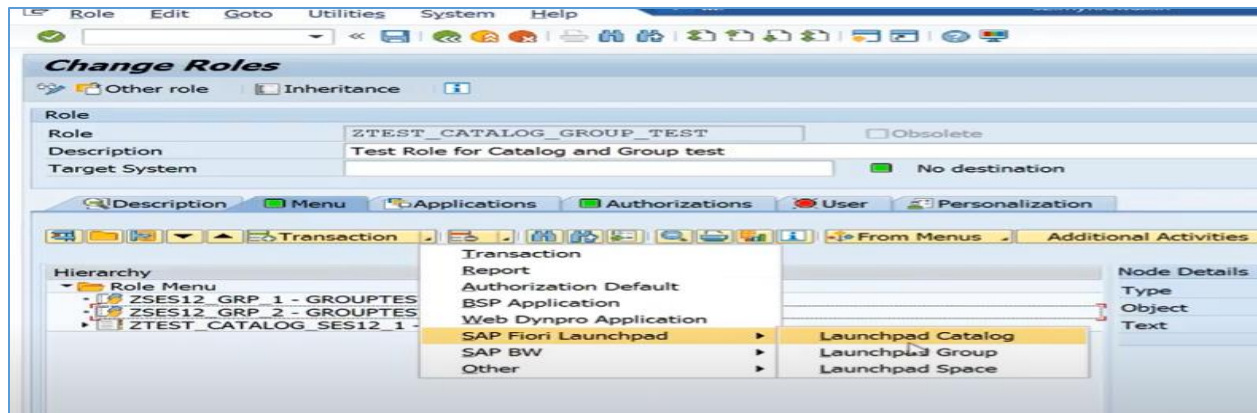
User Maintenance SU01

+

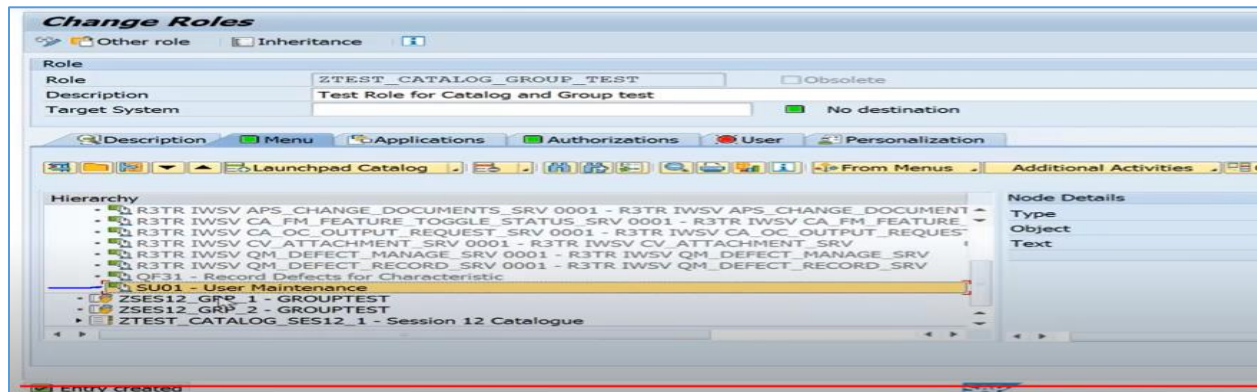


Semantic object & semantic action should be match with tiles what we have prepared

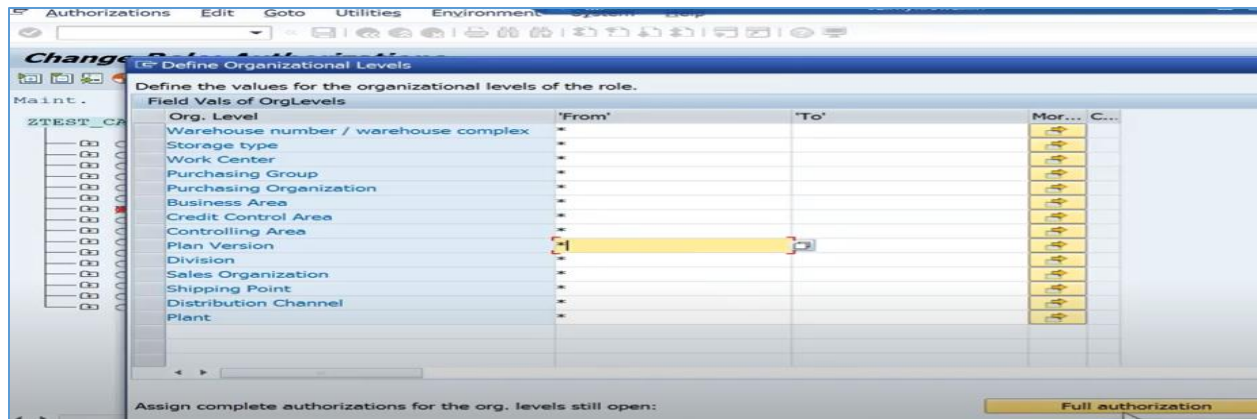




Transaction automatically include

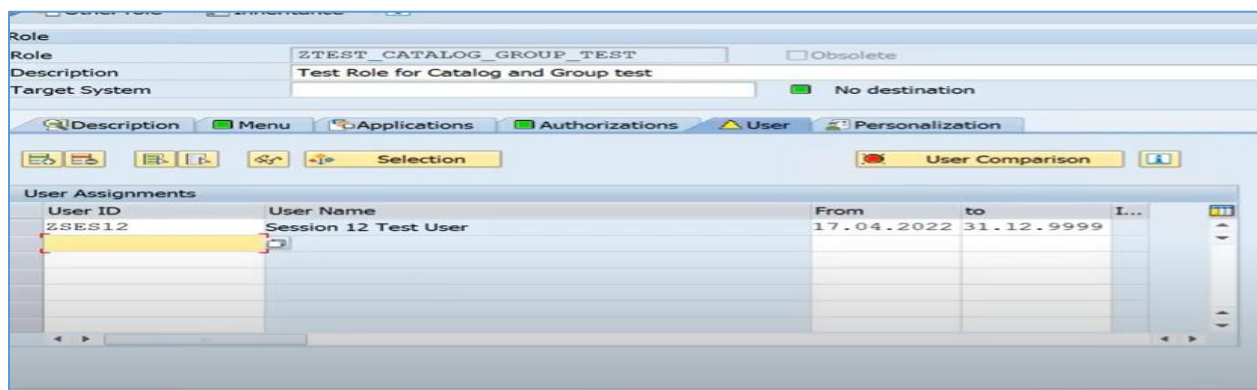


Do authorization fully

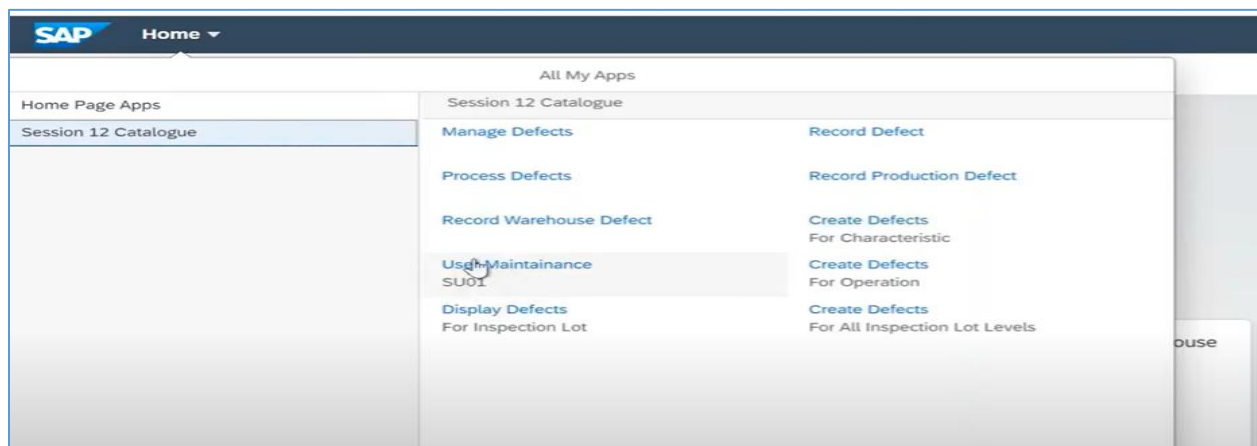


Save & generate

Add the user

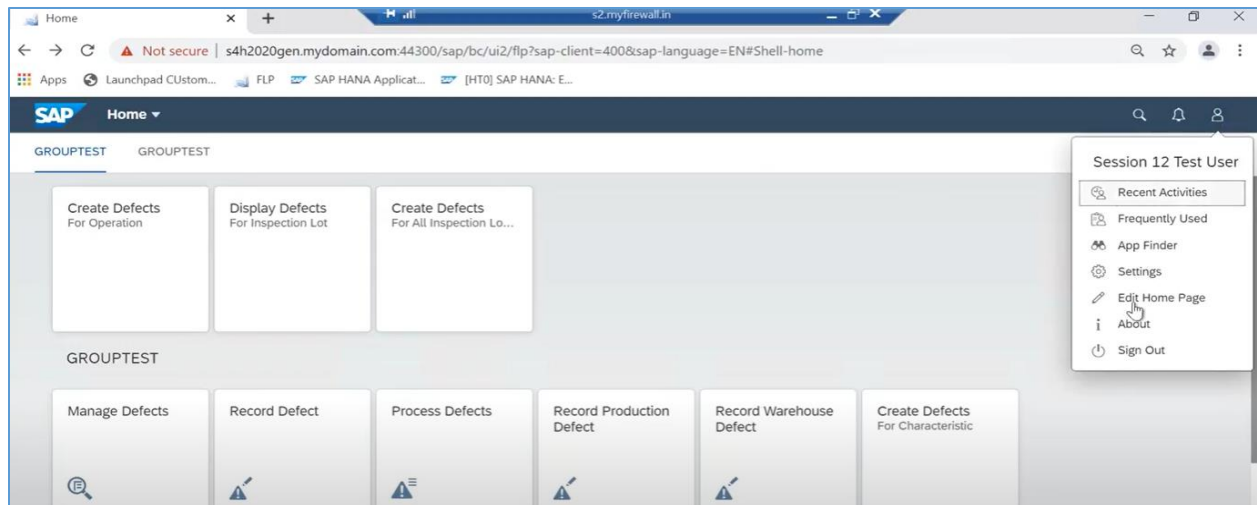


Go to fiori lunchpad



Q:How do enduser modify lunchpad

He can drag & drop or re -arrange group as he likes

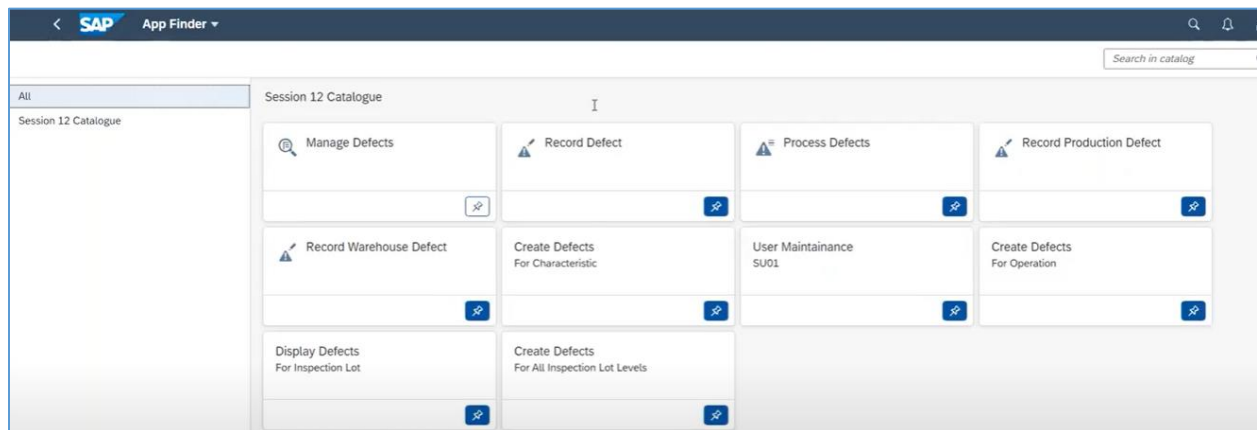


Bring SAP menu into Launchpad

Basically we are against this principle ,if any client wants ,then we can do that

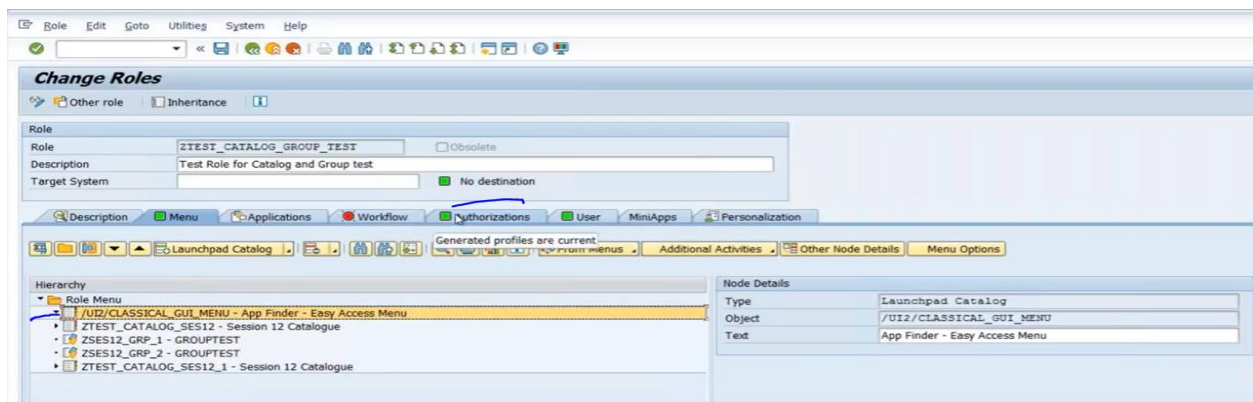
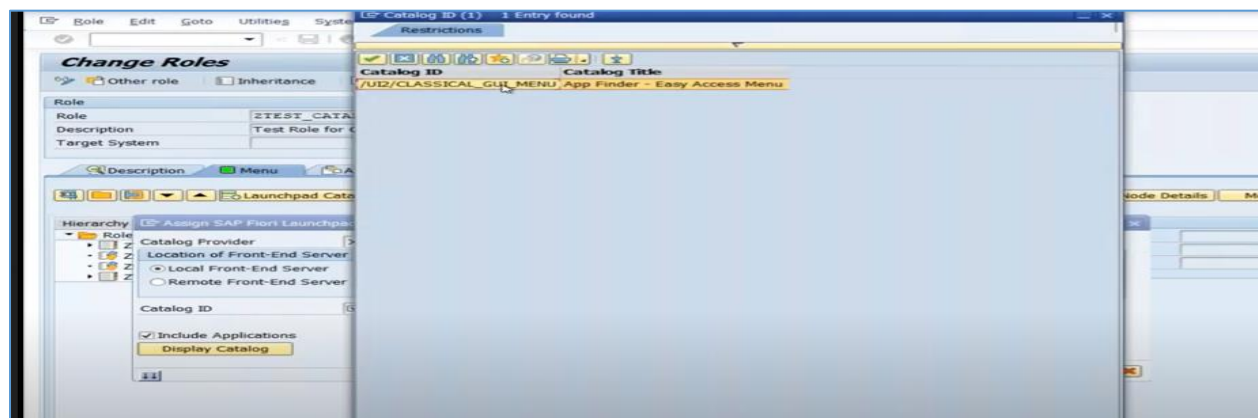
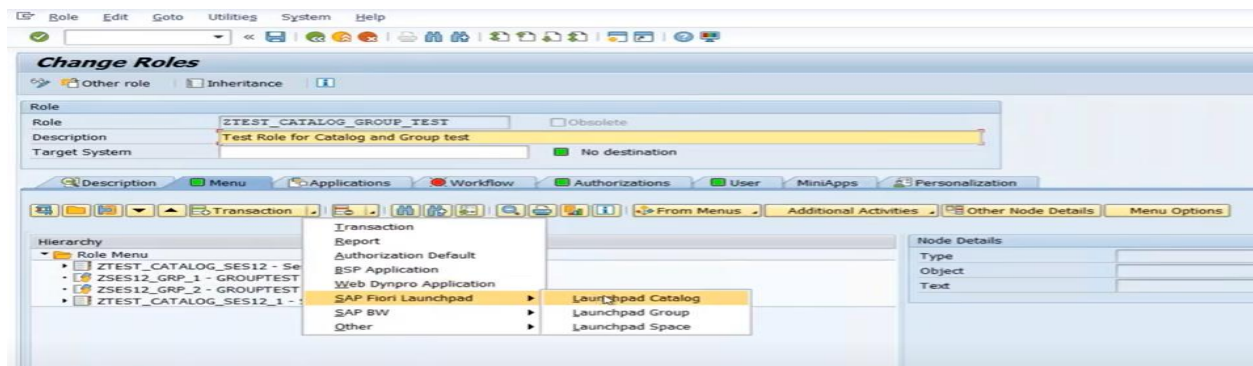
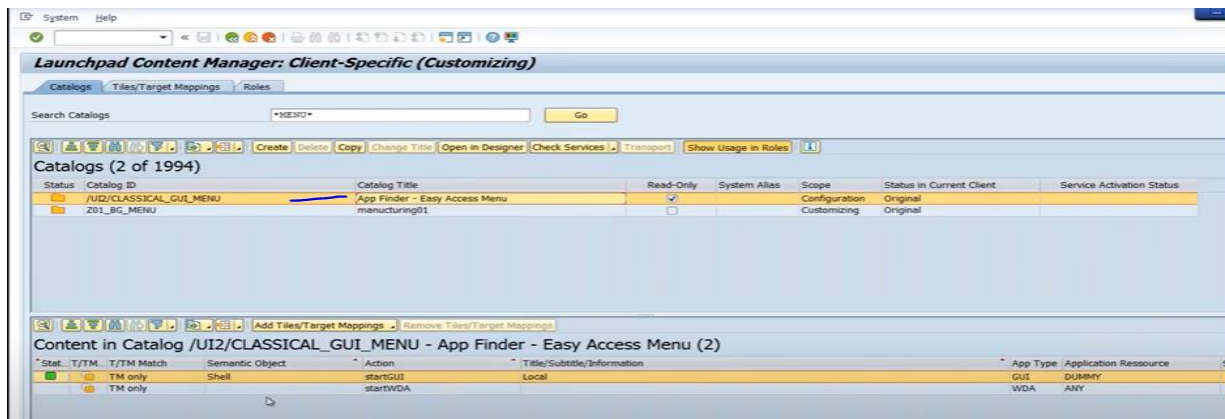
Go to fiori lunchpad

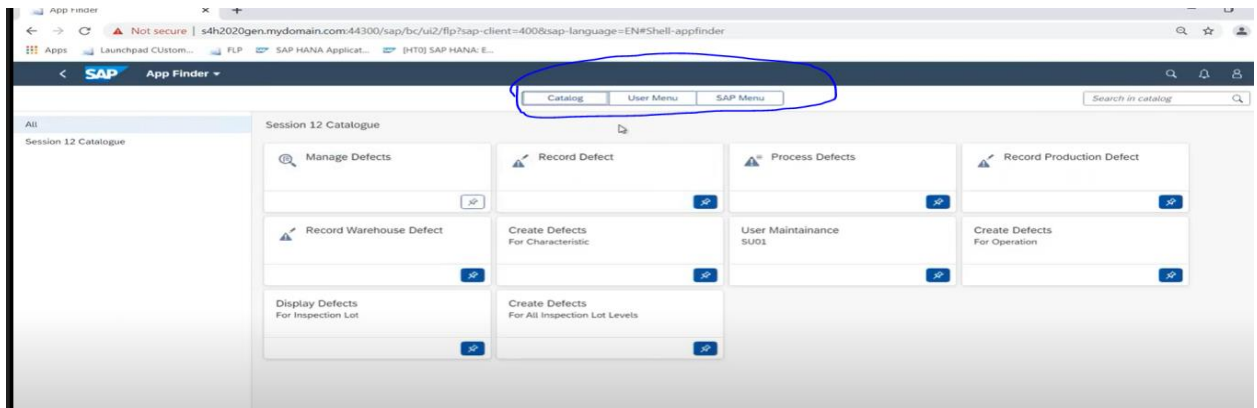
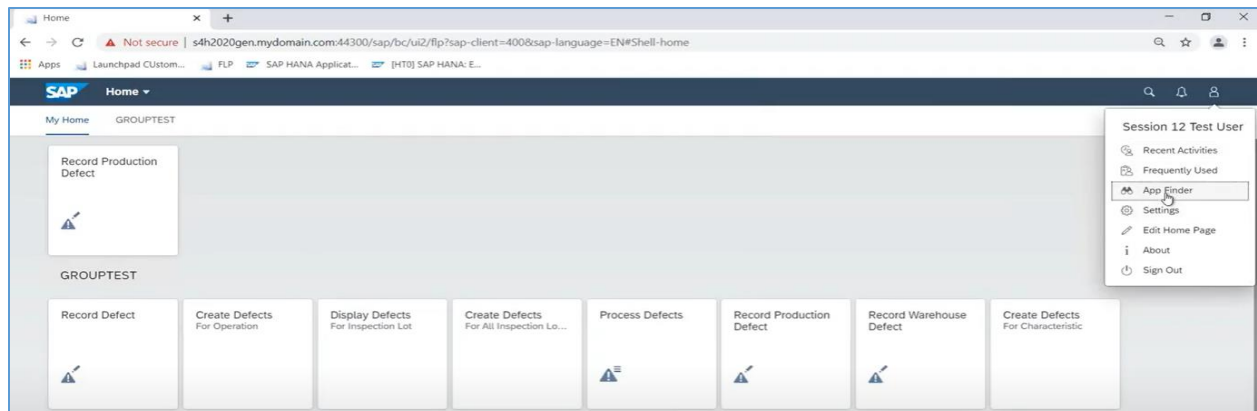
Generally it is seen like that



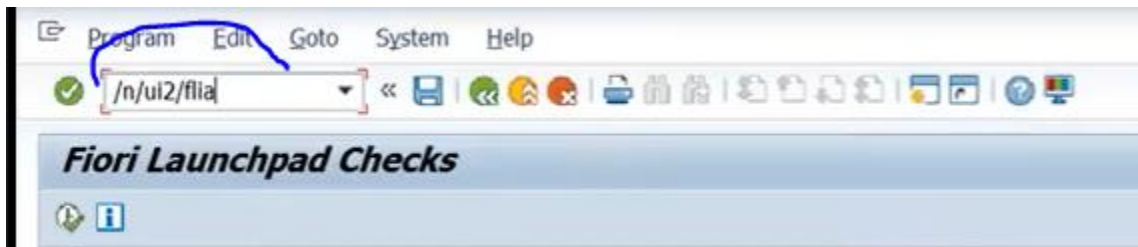
Go to content manager

There is a ready catalog, which can take reference & make it own.when you add the user ,he will have feasibility SAP menu & user menu

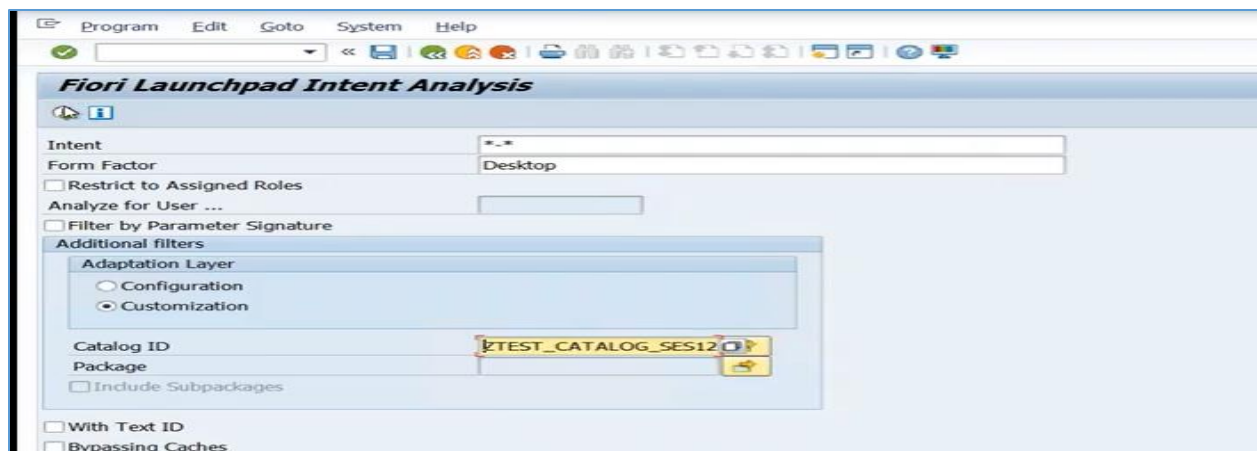




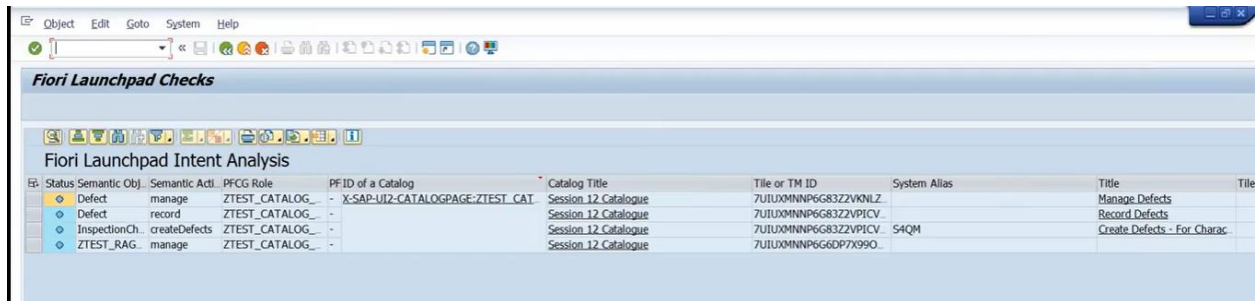
Intent analysis



By clicking catalog ,see the intent



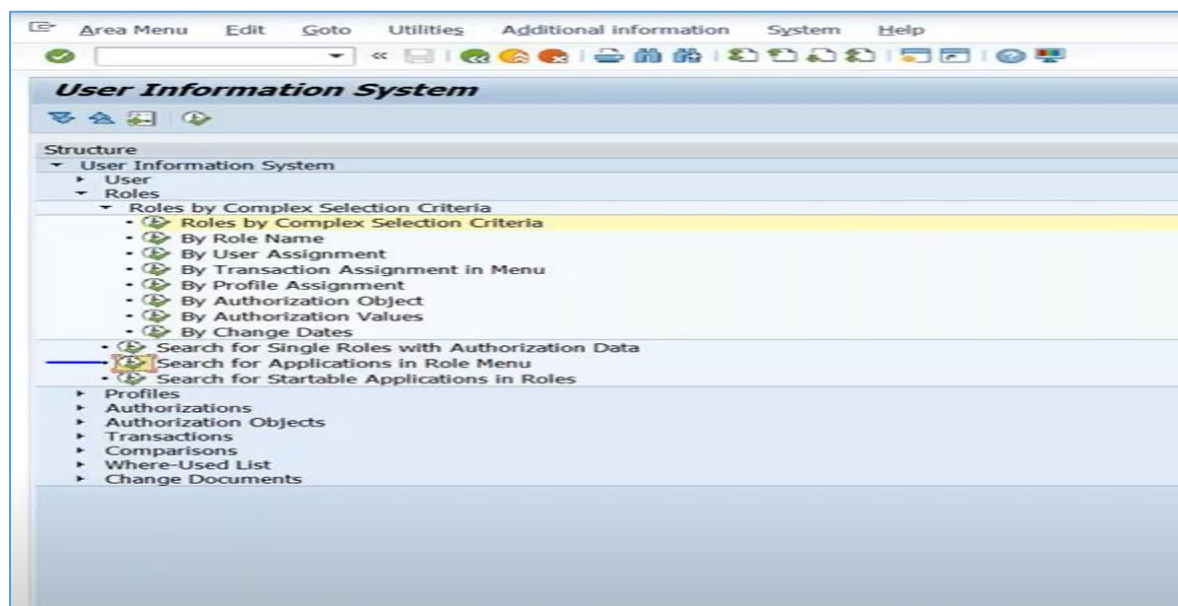
Based on your catalog ID & intent ,you can identify intent of the particular catalog(intent is the combination of sementic object & semantic action

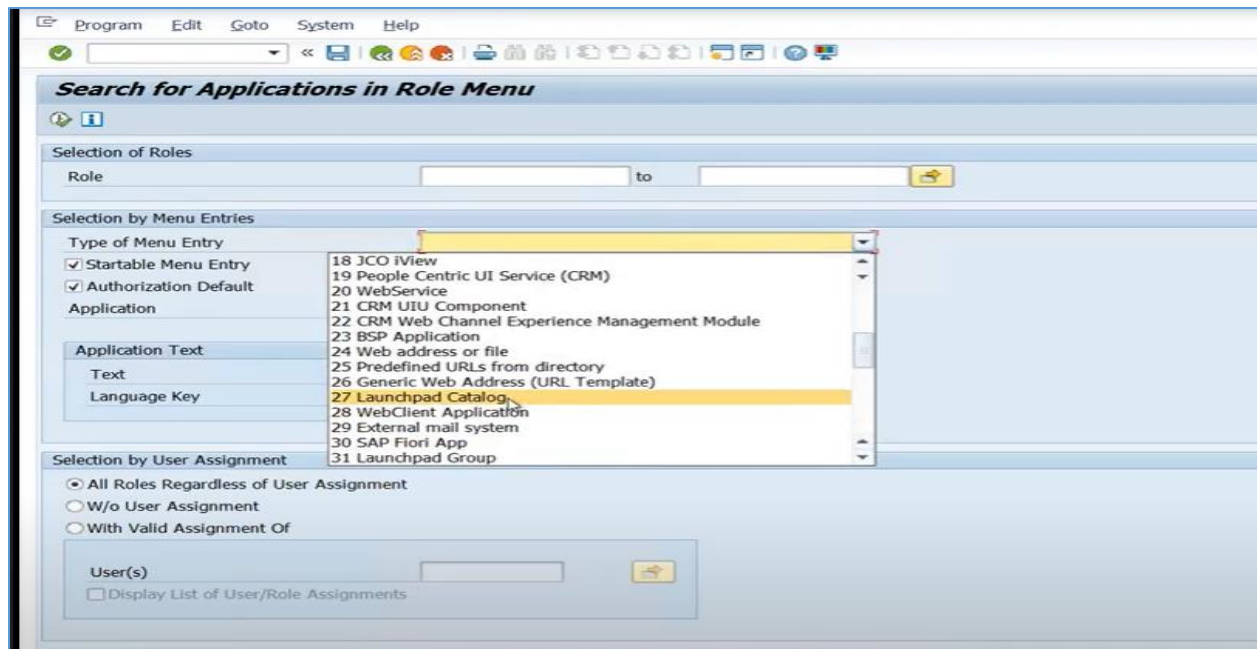


The screenshot shows the 'Fiori Launchpad Checks' window. Below the title bar, there is a section titled 'Fiori Launchpad Intent Analysis'. It contains a table with the following data:

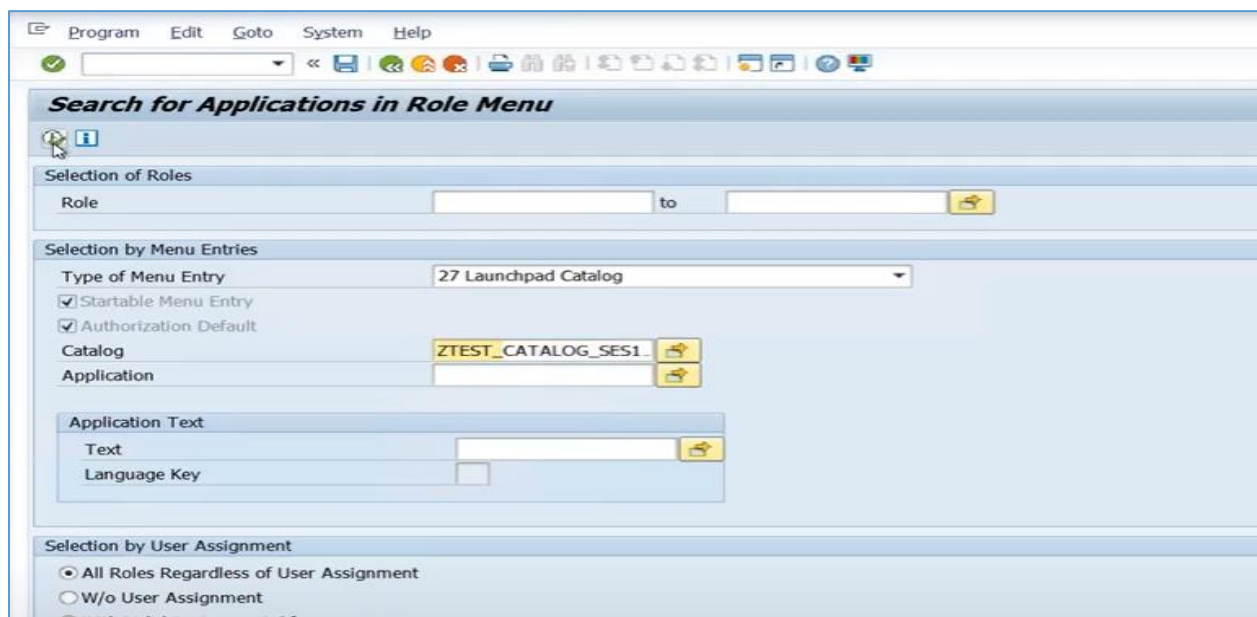
St	Status	Semantic Obj.	Semantic Act.	PFCG Role	PF ID of a Catalog	Catalog Title	Title or TM ID	System Alias	Title	Title
1	Defect	manage	ZTEST_CATALOG_...	-	X-SAP-UI2-CATALOGPAGE-ZTEST_CAT	Session 12 Catalogue	7U1UXMNNP6G83Z2VKNLZ		Manage Defects	
2	Defect	record	ZTEST_CATALOG_...	-		Session 12 Catalogue	7U1UXMNNP6G83Z2VPICV...		Record Defects	
3	InspectionCh...	createDefects	ZTEST_CATALOG_...	-		Session 12 Catalogue	7U1UXMNNP6G83Z2VPICV...	S4QM	Create Defects - For Charac...	
4	ZTEST_RAG...	manage	ZTEST_CATALOG_...	-		Session 12 Catalogue	7U1UXMNNP6G6DP7X990...			

We can check in SUIM





To find the role below



Search for Applications in Role Menu				
System/Client ETO / 400 Date/Time 28.04.2022 / 16:18:18 User HANA				
Number of Entries: 1				
Role	Type of Menu Entry	Type of Application	Application Name	Text
ZTEST_CATALOG_GROUP_TEST	Authorization Default Values for Services	SAP Gateway Business Suite Enablement - Service	APS_CHANGE_DOCUMENTS_SRV_0001	R3TR IWSV APS_CHANGE_DOCUMENTS_SRV...
			CA_FM_FEATURE_TOGGLE_STATUS_SRV_0001	R3TR IWSV CA_FM_FEATURE_TOGGLE_STATU...
			CA_OC_OUTPUT_REQUEST_SRV_0001	R3TR IWSV CA_OC_OUTPUT_REQUEST_SRV...
			CV_ATTACHMENT_SRV_0001	R3TR IWSV CV_ATTACHMENT_SRV...
			QM_DEFECT_MANAGE_SRV_0001	R3TR IWSV QM_DEFECT_MANAGE_SRV...
			QM_DEFECT_RECORD_SRV_0001	R3TR IWSV QM_DEFECT_RECORD_SRV...
		SAP Gateway: Service Groups Metadata	ZAPS_CHANGE_DOCUMENTS_SRV_0001	R3TR IWSG ZAPS_CHANGE_DOCUMENTS_SRV...
			ZCA_FM_FEATURE_TOGGLE_STATUS_SRV_0001	R3TR IWSG ZCA_FM_FEATURE_TOGGLE_STAT...
			ZCA_OC_OUTPUT_REQUEST_SRV_0001	R3TR IWSG ZCA_OC_OUTPUT_REQUEST_SRV...
			ZCV_ATTACHMENT_SRV_0001	R3TR IWSG ZCV_ATTACHMENT_SRV_0001
			ZQM_DEFECT_MANAGE_SRV_0001	R3TR IWSG ZQM_DEFECT_MANAGE_SRV_0001
			ZQM_DEFECT_RECORD_SRV_0001	R3TR IWSG ZQM_DEFECT_RECORD_SRV_0001
		Transaction	QF31	Record Defects for Characteristic
			SU01	User Maintenance
	Launchpad Catalog		ZTEST_CATALOG_SES12	Session 12 Catalogue

Go to content manager

Launchpad Content Manager: Client-Specific (Customizing)				
Search Catalogs ZTEST*SES*				
Catalogs (2 of 2007)				
Status	Catalog ID	Catalog Title	Read-Only	System Alias
	ZTEST_CATALOG_SES12	Session 12 Catalogue	<input type="checkbox"/>	
	ZTEST_CATALOG_SES12_1	Session 12 Catalogue	<input type="checkbox"/>	
Content in Catalog ZTEST_CATALOG_SES12 - Session 12 Catalogue (7)				
Stat.	T/T	T/T Match	Semantic Object	Action
			Defect	display
				manage
				record
			InspectionCharacteristic	createDefects
			ZTEST_RAGHU	manage

Launchpad Content Manager: Client-Specific (Customizing)				
Search Catalogs ZTEST*SES*				
Catalogs (2 of 2007)				
Status	Catalog ID	Catalog Title	Read-Only	System Alias
	ZTEST_CATALOG_SES12	Session 12 Catalogue	<input type="checkbox"/>	
	ZTEST_CATALOG_SES12_1	Session 12 Catalogue	<input type="checkbox"/>	
Roles containing Catalog ZTEST_CATALOG_SES12 - Session 12 Catalogue (1)				
Role	Role Description			Service Activation Status
ZTEST_CATALOG_GROUP_TEST	Test Role for Catalog and Group test			

Create custom role for fiori app with space & pages

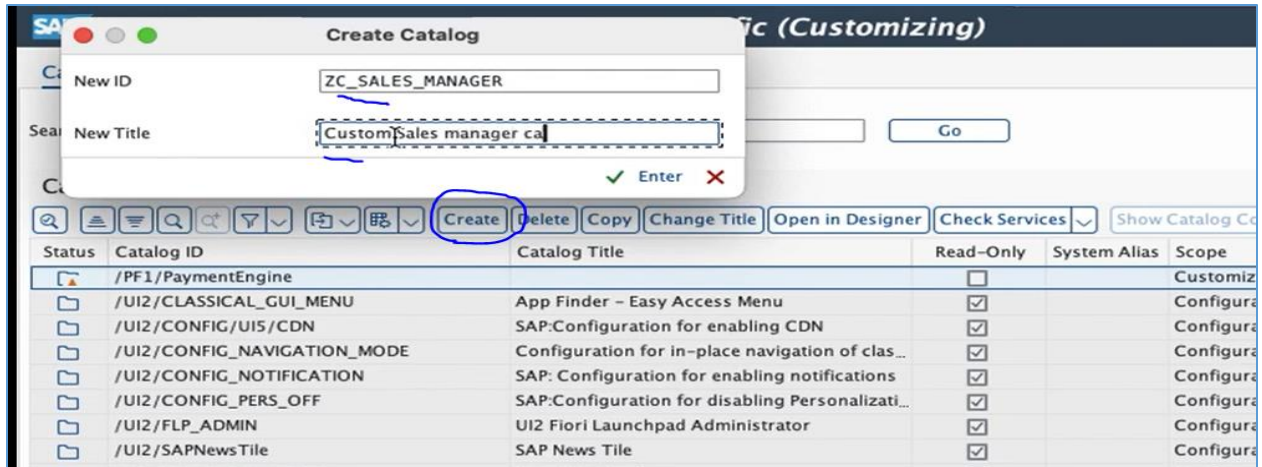
Input is there below for reference

Title Creation of Custom Catalog , Space Page and Role			
Requirement	Create a role for Sales Manager with the below app ID's		Technical Catalog
	Sales Management Overview F2601		SAP_TC_CEC_SD_COMMON
	Track Sales Orders F2577		SAP_TC_CEC_SD_COMMON
Role Name	Z_SALES_MANAGER		
Role Description	Test Role for Sales Manager		Section Overview
Catalog	ZC_SALES_MANAGER		
Space	ZSP_SALES_MANAGER		
Page	ZPG_SALES_MANAGER		

Take reference from SAP library of technical catalog

The screenshot shows the SAP Fiori 'Sales Management Overview' app configuration page. On the left, a sidebar lists 'SAP Fiori lighthouse apps' and 'Other SAP Fiori Apps'. The 'Sales Management Overview' app is selected. The main content area displays the app's details, including the required back-end product (SAP S/4HANA), line of business (Marketing, Sales, Supply Chain), app launcher title, application type, database, device type, and app ID (F2601). Below this, there are tabs for 'PRODUCT FEATURES', 'IMPLEMENTATION INFORMATION', and 'RELATED APPS'. The 'IMPLEMENTATION INFORMATION' tab is active, showing a list of 'SAP Fiori Overview' items: 'Important SAP Notes', 'Installation', and 'Configuration'.

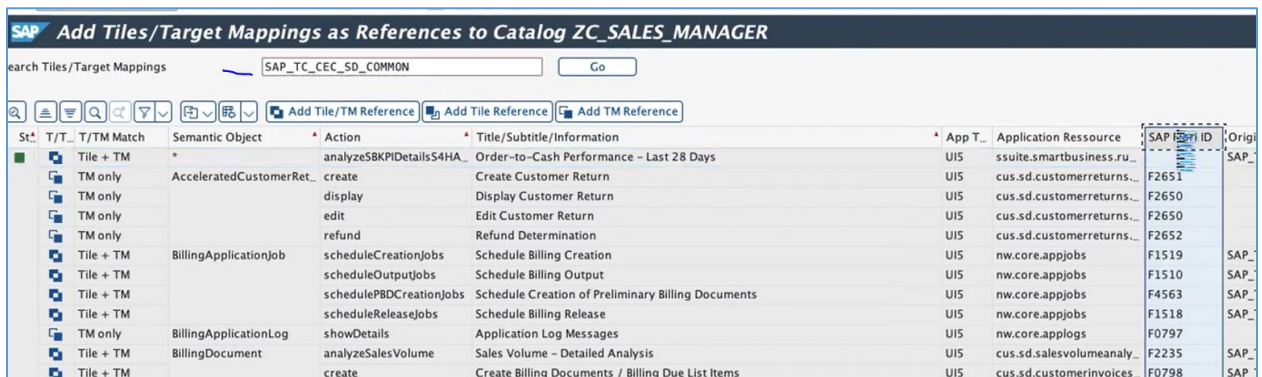
SAP Fiori lighthouse apps		Technical Catalog(s)	
<input type="checkbox"/> Manage Sales Plans / Manage Sales Plans		Technical Catalog	Technical Catalog Description
<input type="checkbox"/> Quotation Conversion Rates / Quotation Conversion Rates - Valid / Not Completed		SAP_TC_CEC_SD_COMMON	CEC: Customer Engagement and Commerce - SD
<input type="checkbox"/> Sales Management Overview		Business Catalog(s)	
<input type="checkbox"/> Sales Order Fulfillment Issues (Version 2)		<input type="checkbox"/> Business Catalog	Business Catalog Description
<input type="checkbox"/> Sales Performance - Plan/Actual		<input type="checkbox"/> SAP_SD_BC_SLS_ORD_TRACKING	Sales - Sales Order Monitoring and
<input type="checkbox"/> Track Sales Orders (S/4HANA)		<input type="checkbox"/> SAP_SD_BC_SO_PROC_OP	Sales - Sales Order Processing
Other SAP Fiori Apps		Business Group(s)	
<input type="checkbox"/> Advanced Variant Configuration Wrapper		Business Group	Business Group Description
<input type="checkbox"/> Analyze Confirmations of Sales Orders / Sales Order - Demand Fulfillment / Sales Orders - Demand Fulfillment		SAP_SD_BCG_SLS_ORD_TRACKING	Sales Order Monitoring and Tracking



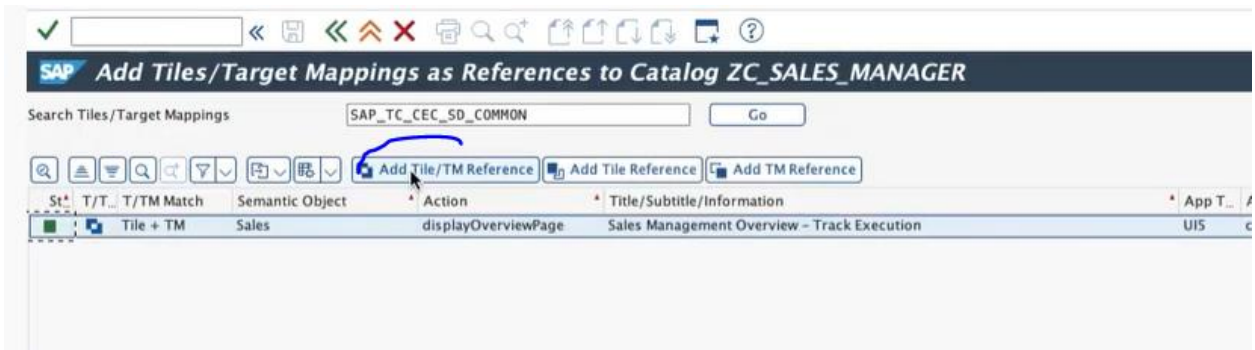
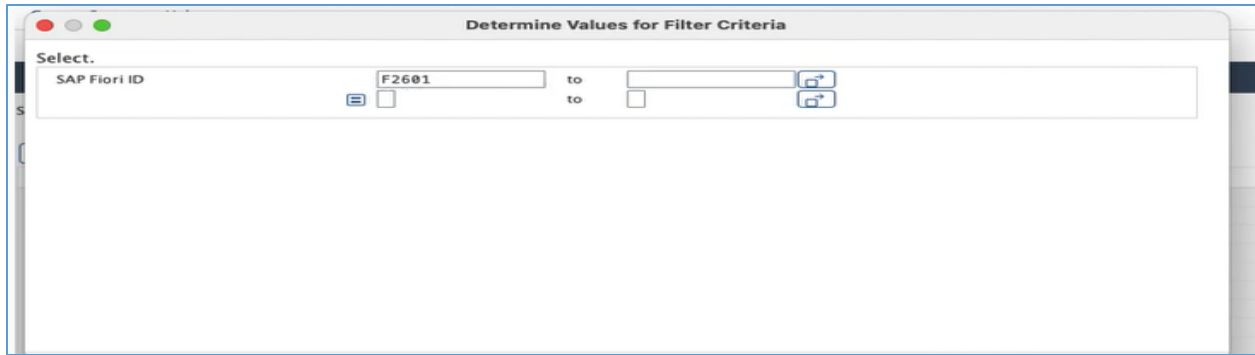
Once ID created –add tiles /target mapping



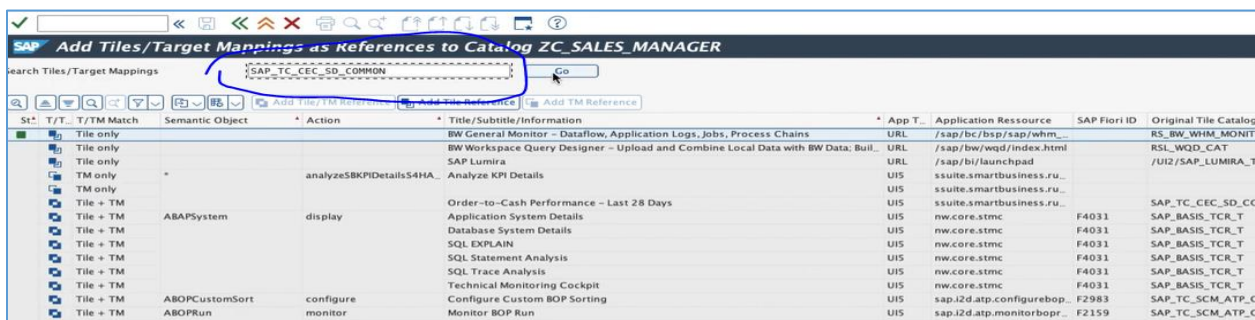
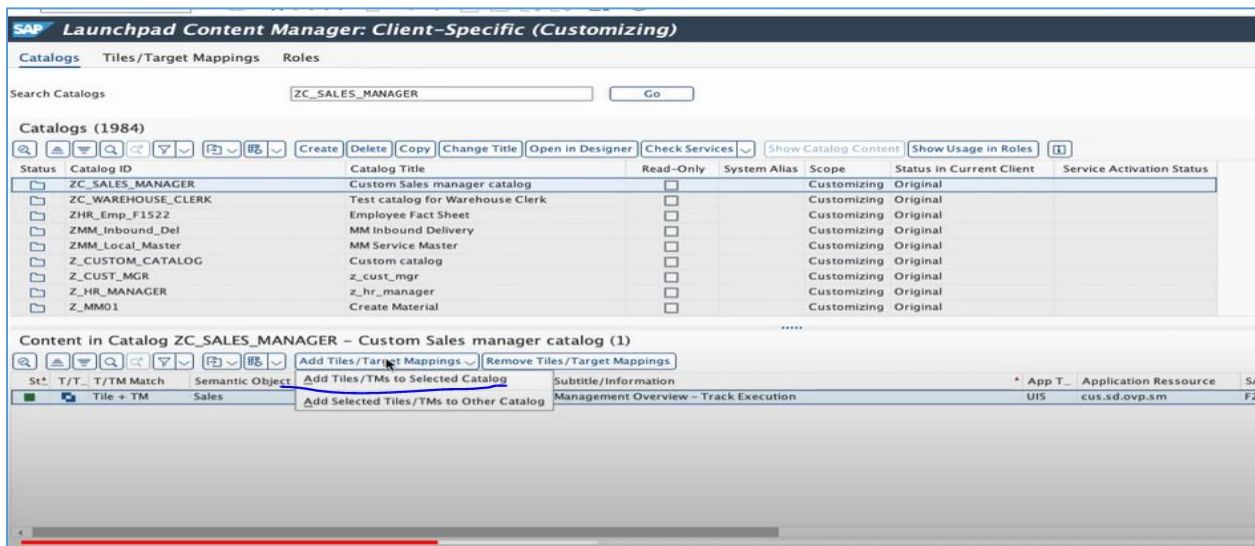
Add technical catalog & Search FFID & to link



Find app



Add other tile



Determine Values for Filter Criteria

Select.

SAP Fiori ID to to

SAP Add Tiles/Target Mappings as References to Catalog ZC_SALES_MANAGER

Search Tiles/Target Mappings

St	T/T...	T/TM Match	Semantic Object	Action	Title/Subtitle/Information	App T...	Application Resource	SAP Fiori ID	Original Tile Catalog ID
	TM only		DebitMemoRequest	trackStatus	Track Sales Orders	UIS	cus.sd.sofullfil.trackstatu...	F2577	SAP_TC_CEC_SD_COMMON
	Tile + TM		SalesOrder			UIS	cus.sd.sofullfil.trackstatu...	F2577	
	TM only		SalesOrderWithoutCharge			UIS	cus.sd.sofullfil.trackstatu...	F2577	

1:Both this tiles are mapped catalog id

2:Create role based upon catalog

Go to PFCG & Navigate to transaction

SAP Change Roles

Role ☐ Obsolete

Description

Target System

Transaction

Hierarchy

- Role Menu
 - Transaction
 - Report
 - Authorization Default
 - BSP Application
 - Web Dynpro Application
 - SAP Fiori Launchpad > Launchpad Catalog
 - SAP BW > Launchpad Group
 - Other > Launchpad Space

Node Details

Type

Object

Text

Mention catalog id ,which input is given

Assign SAP Fiori Launchpad Catalog

Catalog Provider

Location of Front-End Server

☒ Local Front-End Server
 ☐ Remote Front-End Server

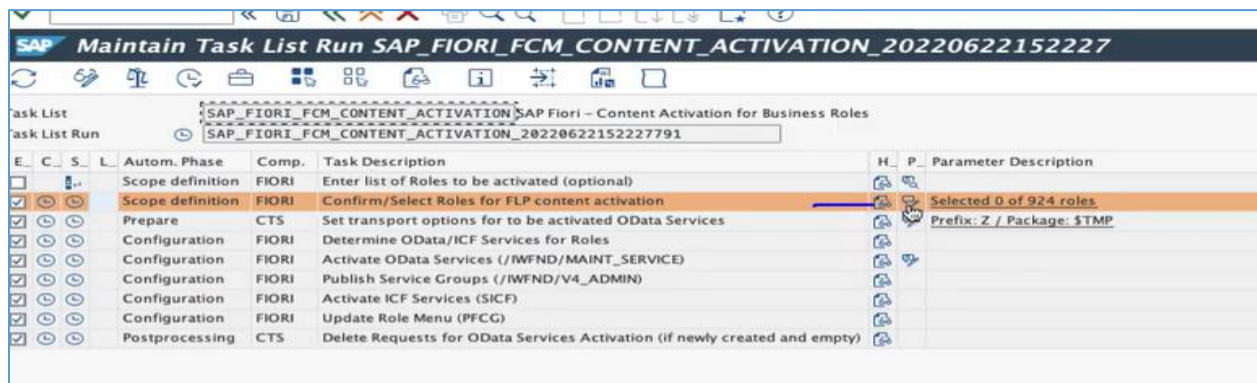
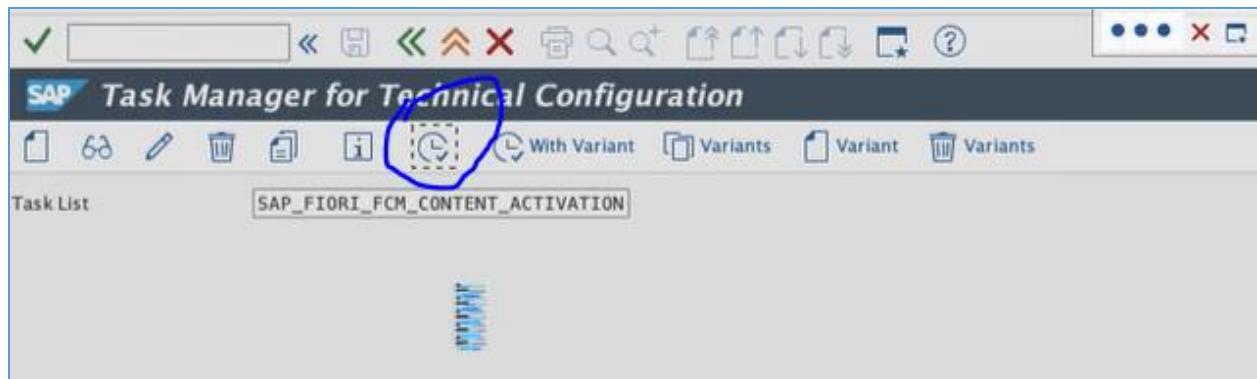
Catalog ID

☒ Include Applications

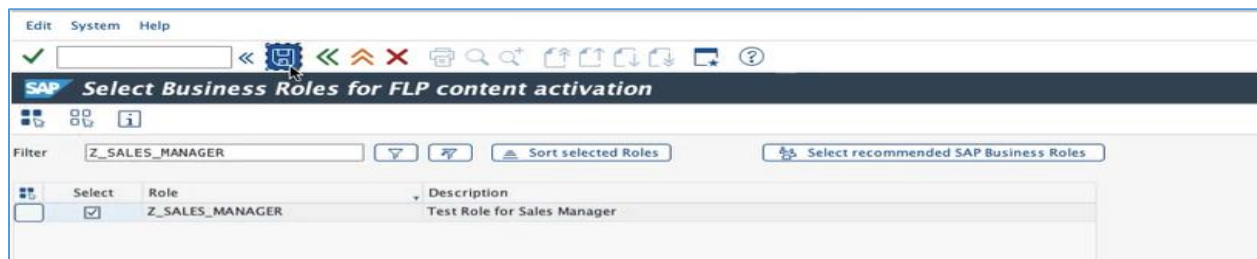
Maintain authorization org level

3:Activation of OData service

Transaction code STC01

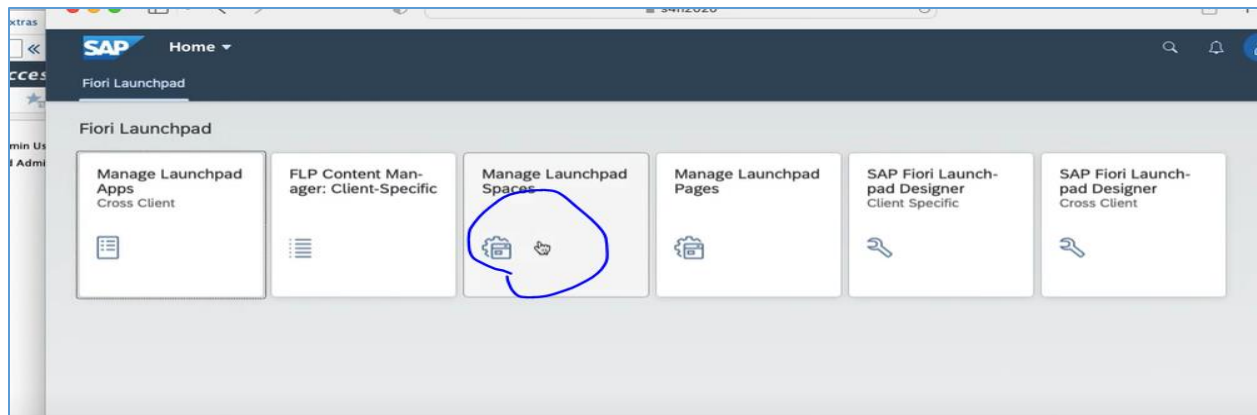


Select which created

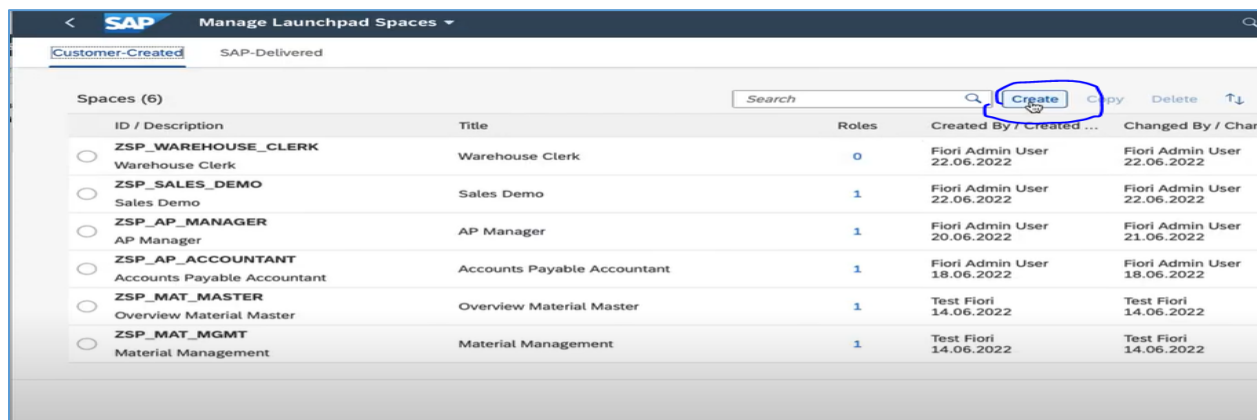


4:Create a space and create a page with section and tiles mapped to it

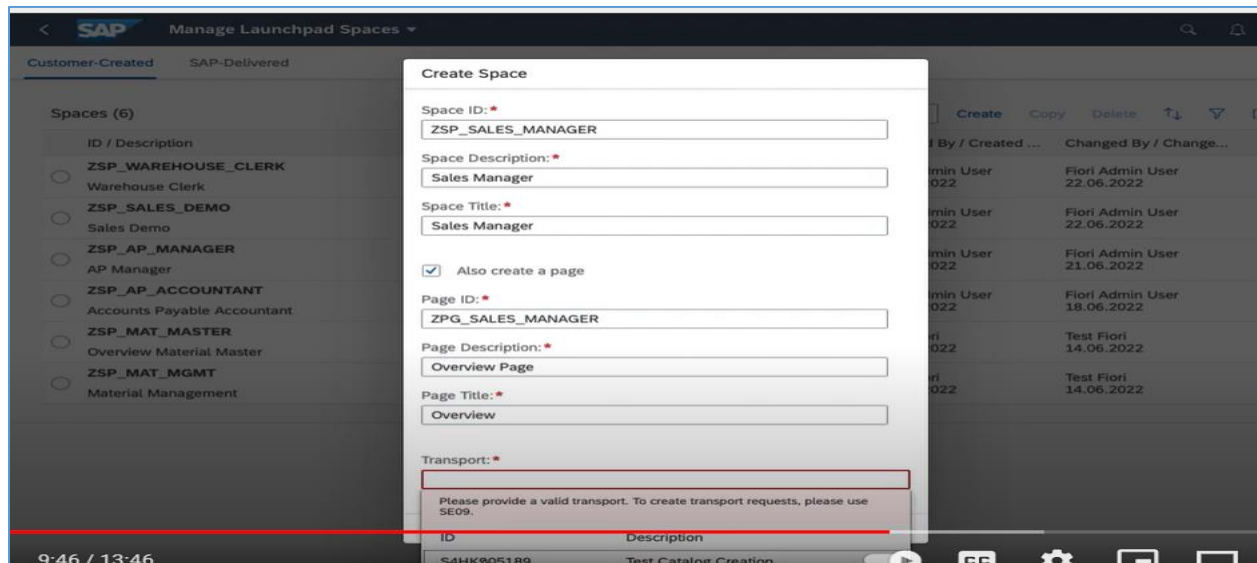
Go to fiori Launchpad-Navigate tile & managed Launchpad spaces



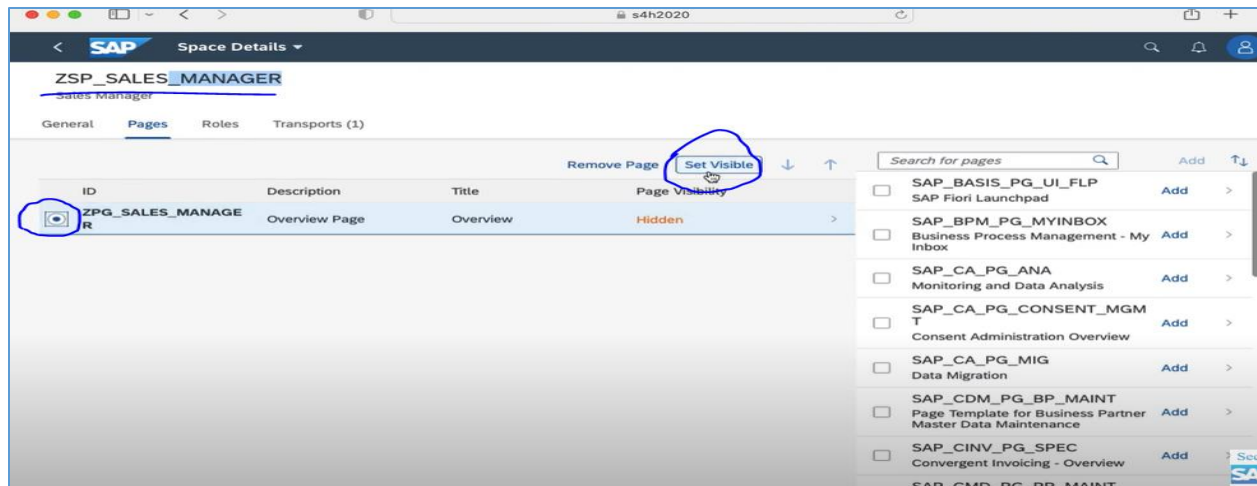
Click on create



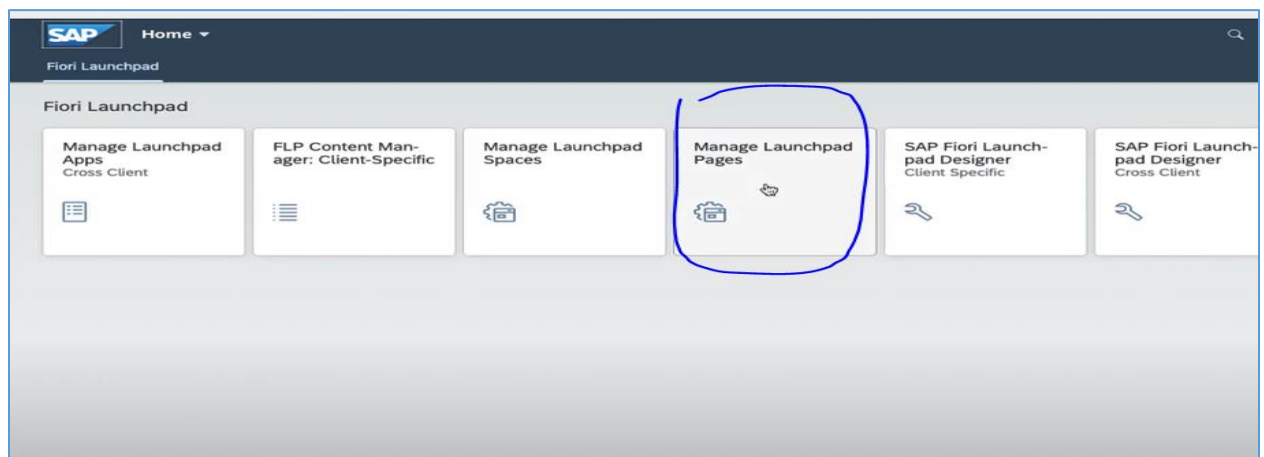
Fill up according to input



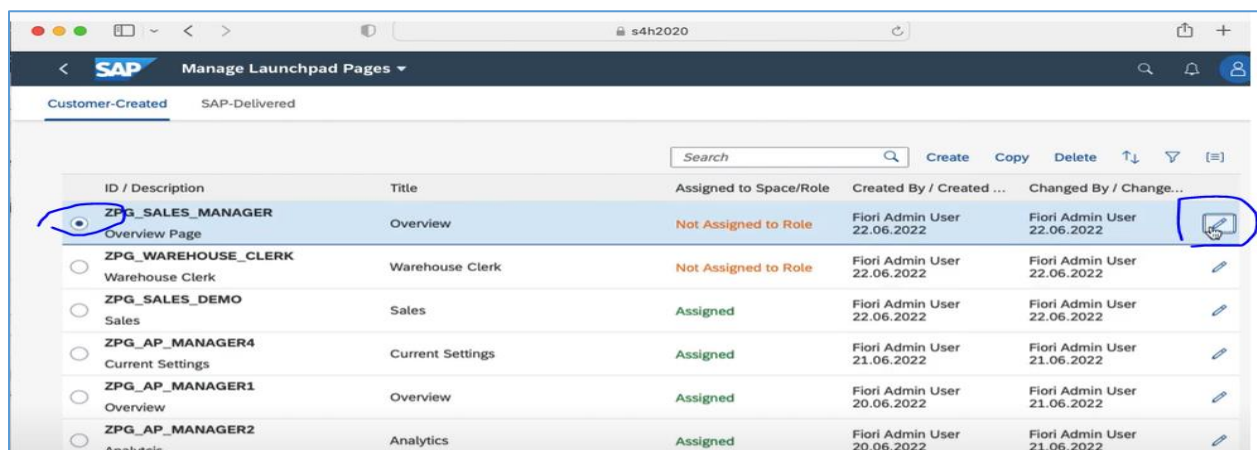
Click visibility & do set up below

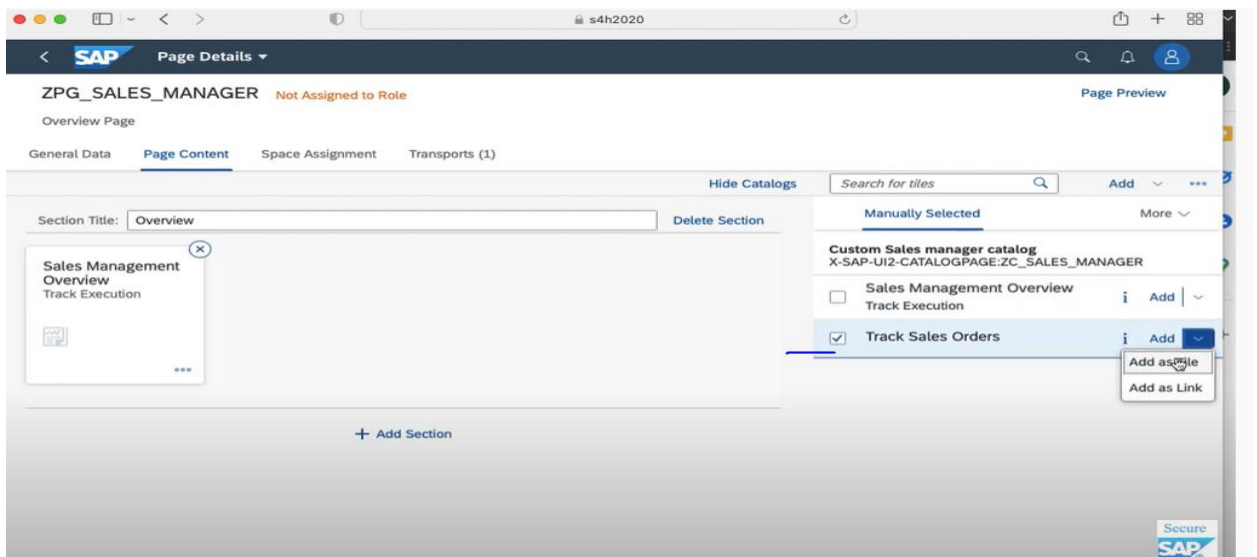
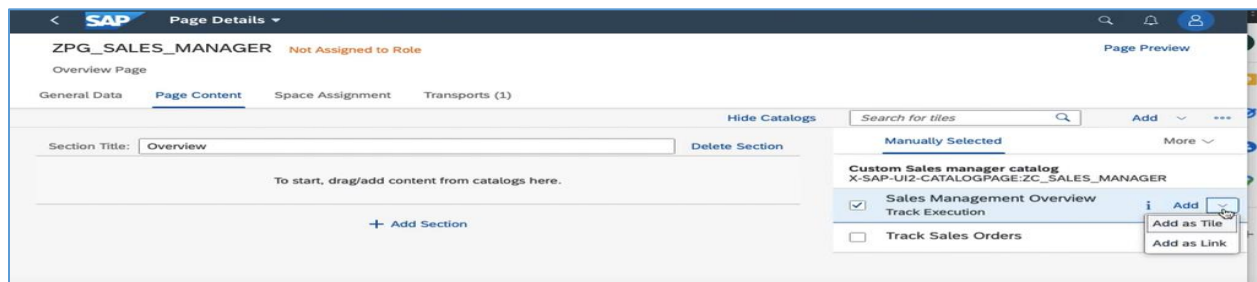
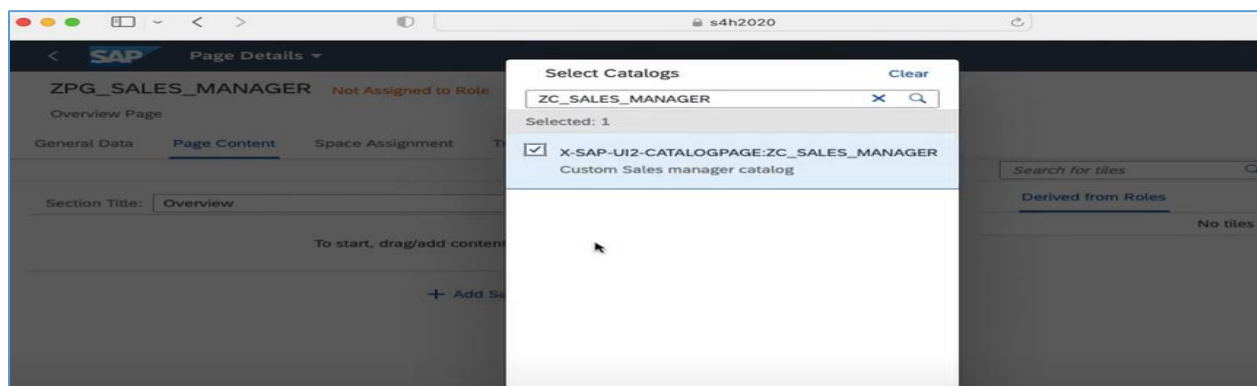
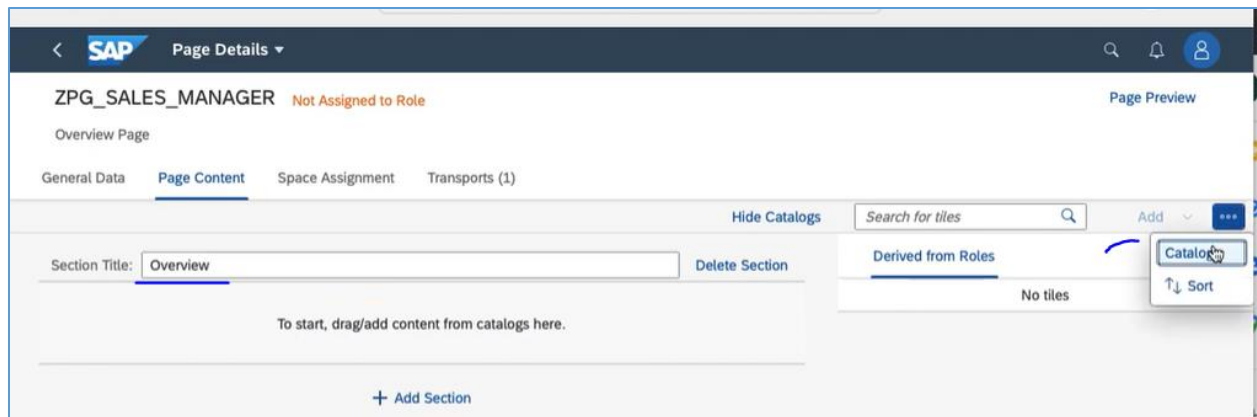


Back & go to manage Launchpad pages

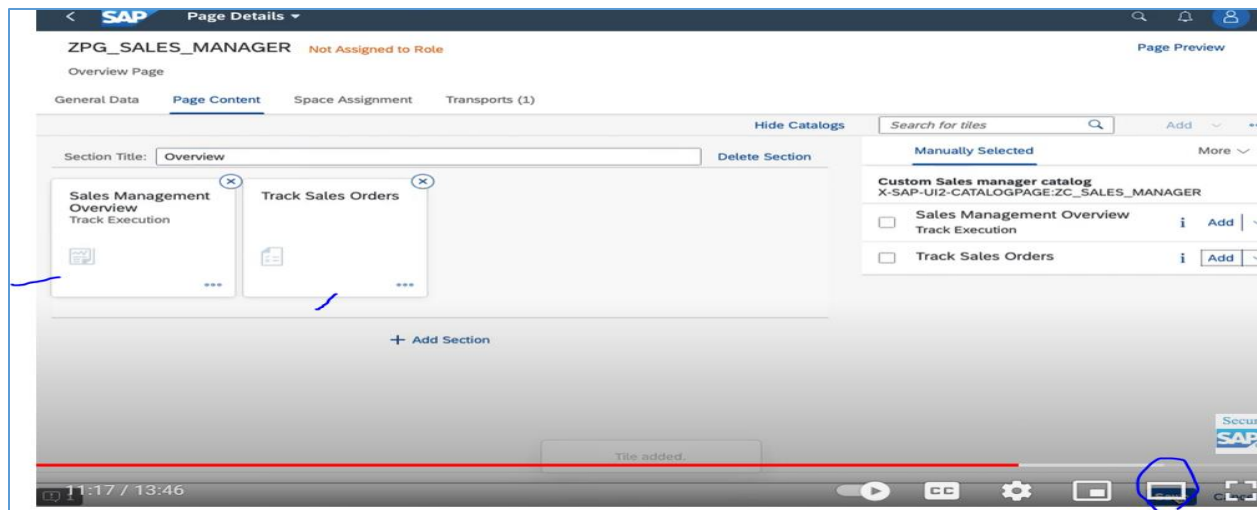


Add tiles to it

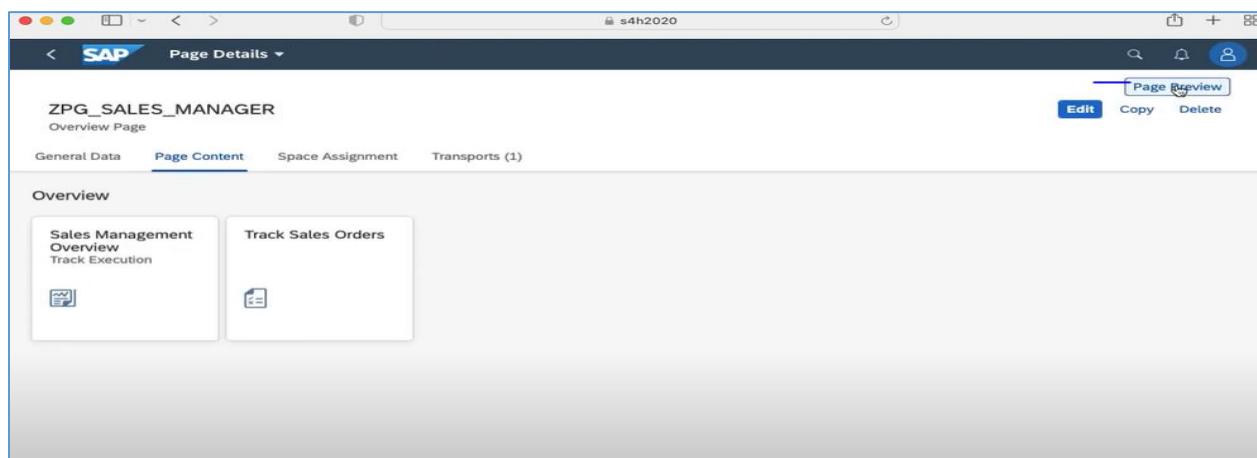




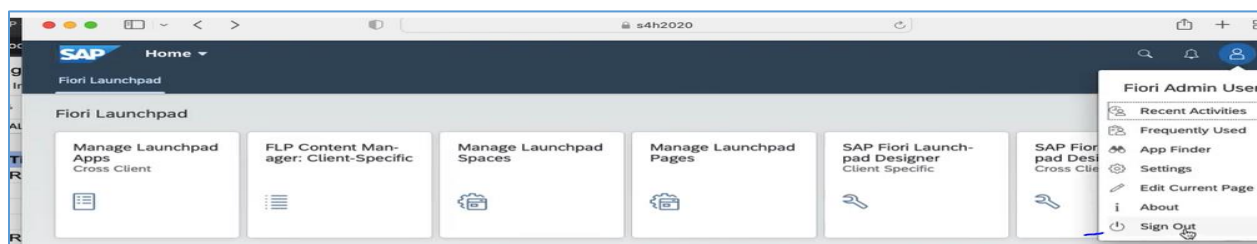
Our overview pages created



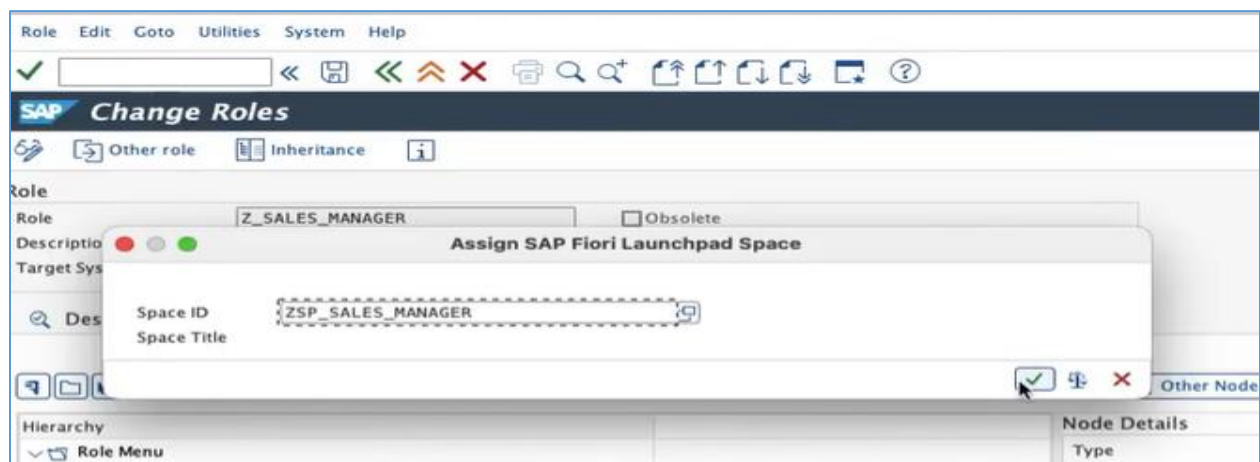
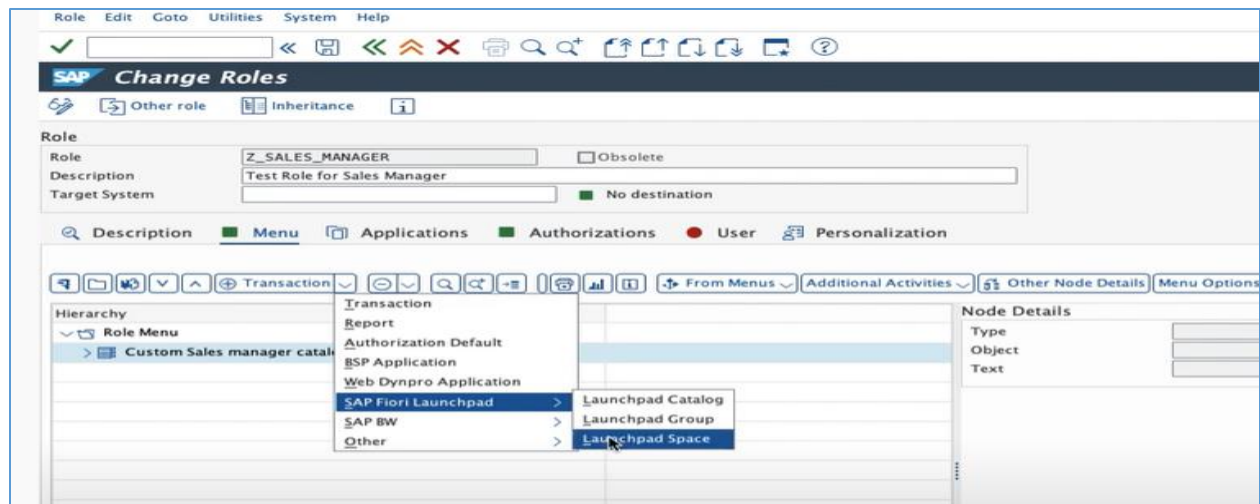
You have option also page preview



Do sign out

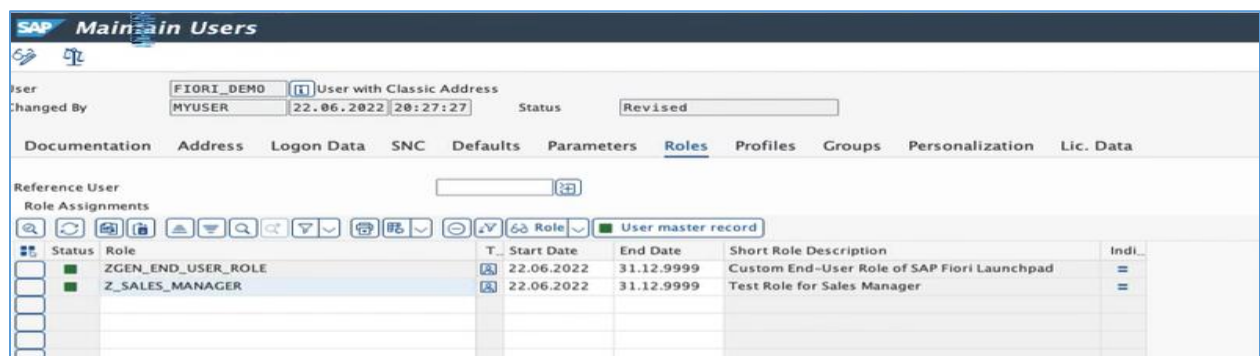


5: Updating our role with the space detail in PFCG

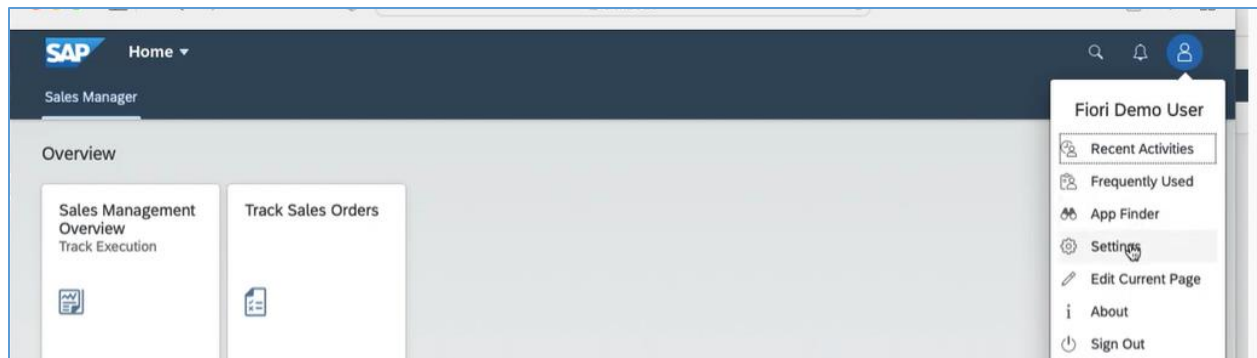


Do authorization part

6: Assign role to user



Go to fiori Launchpad for changes



Space is already enabled

